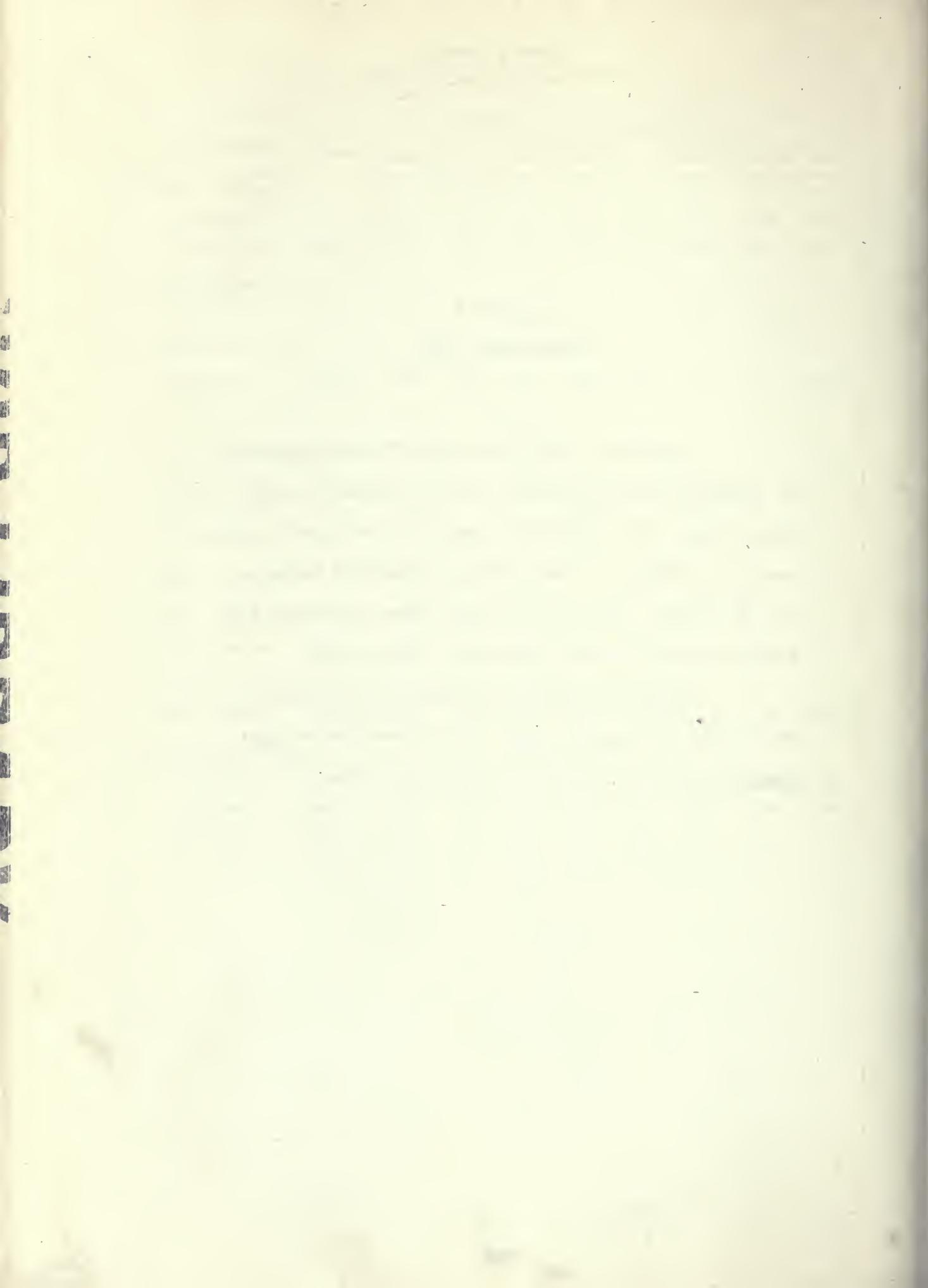


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BULLETIN No. 130-72

HYDROLOGIC DATA: 1972
 Volume III: CENTRAL COASTAL AREA

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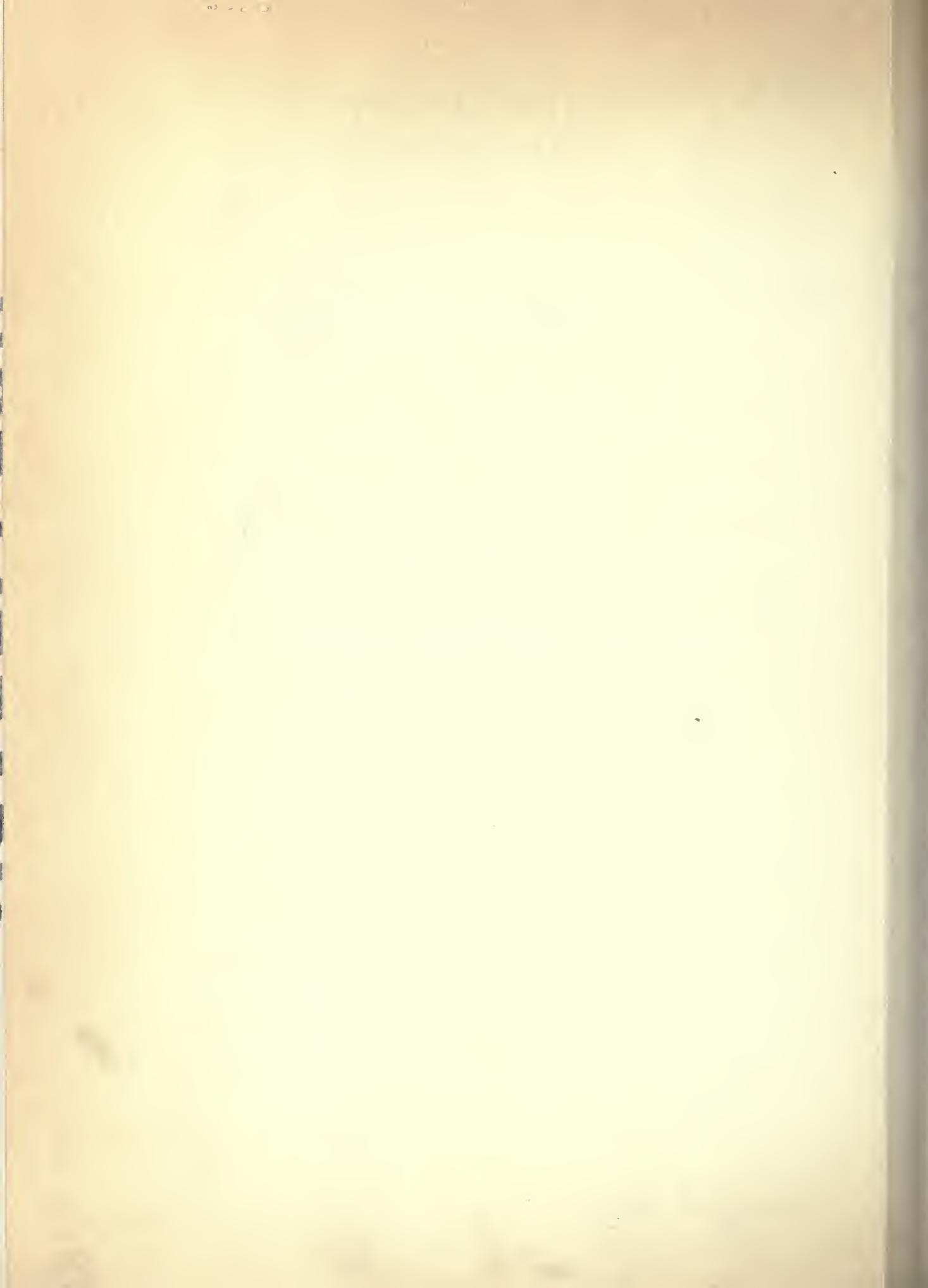
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 Governor
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JOHN R. TEERINK
 Director
 Department of Water Resources



STATE OF CALIFORNIA
The Resources Agency
Department of Water Resources

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Volume III: CENTRAL COASTAL AREA

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Director
Department of Water Resources

HYDROLOGIC DATA
AREAL COVERAGE OF VOLUMES

EACH VOLUME CONTAINS

- Appendix A: Climatological Data
Appendix B: Surface Water Measurements
Appendix C: Ground Water Measurements
Appendix D: Surface Water Quality Data
Appendix E: Ground Water Quality Data

THIS VOLUME :



FOREWORD

The hydrologic data programs of the Department of Water Resources supplement the data collection activities of other agencies and help satisfy the needs for data on the quality and quantity of water in the State. Bulletin No. 130-72 presents accurate, comprehensive, and timely hydrologic data which provide a more complete knowledge of the factors affecting our environment and are prerequisites for effective planning, design, construction, and operation of water facilities.

The Bulletin No. 130 series is published annually in five volumes. Each volume presents hydrologic data for one of five reporting areas of the State. These areas are delineated on the map on the opposite page.



John R. Teerink
John R. Teerink, Director
Department of Water Resources
The Resources Agency
State of California
October 24, 1973

METRIC CONVERSION TABLE

ENGLISH UNIT	EQUIVALENT METRIC UNIT
1 Inch (in.)	2.54 Centimeters
1 Foot (ft.)	0.3048 Meters
1 Mile (mi.)	1.609 Kilometers
1 Acre	0.405 Hectares
1 Square mile (sq.mi.)	2.590 Square kilometers
1 U. S. gallon (gal.)	3.785 Liters
1 Acre-foot (ac.ft.)	1,233.5 Cubic meters
1 U. S. gallon per minute (gpm)	0.0631 Liters per second
1 Cubic foot per second (cfs)	1.7 Cubic meters per minute
1 Part per million (ppm)	1 Milligram per liter (mg/l)
1 Part per billion (ppb)	1 Microgram per liter (ug/l)
1 Part per trillion (ppt)	1 Nanogram per liter (ng/l)
1 Equivalent part per million (epm)	1 Milliequivalent per liter (me/l)
Degrees Fahrenheit ($^{\circ}\text{F}$)	$5/9 (\text{ }^{\circ}\text{F}-32)$ Degrees Celsius ($^{\circ}\text{C}$)

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State of California
The Resources Agency
DEPARTMENT OF WATER RESOURCES

RONALD REAGAN, Governor, State of California
NORMAN B. LIVERMORE, Jr., Secretary for Resources
JOHN R. TEERINK, Director, Department of Water Resources

This report was prepared in the

CENTRAL DISTRICT

Robin R. Reynolds District Engineer
Donald J. Finlayson Chief, Water Utilization Branch

by

Edward J. Labrie Chief, Data Evaluation Section
assisted by

Grant C. Ardell Water Resources Engineering Associate
Emil M. Padjen Water Resources Engineering Associate

A portion of the data was furnished by the

SAN JOAQUIN DISTRICT

Carl L. Stetson District Engineer
Floyd I. Bluhm Chief, Water Supply and Utilization Branch
John W. Masier Chief, Planning and Investigations Branch
Cledith L. Chastain Chief, Water Supply Unit
Victor B. McIntyre Chief, Water Quality Unit

and by the

NORTHERN DISTRICT

Albert J. Dolcini District Engineer
George R. Baumli Chief, Planning Branch
Wayne S. Gentry Chief, Operations Branch

Reviewed and coordinated by
Division of Resources Development
Environmental Quality Branch
Water Resources Evaluation Section

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Federal

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U. S. Army, Corps of Engineers
U. S. Army, Post Engineer, Fort Ord
U. S. Bureau of Reclamation
U. S. Coast Guard
U. S. Geological Survey
U. S. Soil Conservation Service

State

Department of Health
Department of Veterans Affairs
Division of Highways
Division of Forestry
Regional Water Quality Control
Board, Central Coast Region,
North Coast Region, and
San Francisco Bay Region
University of California,
Agricultural Extension Service
Water Resources Control Board

Local

Alameda County Flood Control and
Water Conservation District
Alameda County Water District
City of San Francisco
City of Vallejo
East Bay Municipal Utility
District
Marin County
Mendocino County
Monterey County Flood Control and
Water Conservation District
Napa County
San Benito County
San Luis Obispo County Flood Control
and Water Conservation District
Santa Clara County Flood Control
and Water District
Santa Cruz County
Solano Irrigation District
Sonoma County Flood Control and
Water Conservation District
South Santa Clara Valley Water
Conservation District

ABSTRACT

Report contains tables showing data on climate, surface water flow, change of ground water levels, and surface and ground water quality in the Central Coastal Area for the 1971-72 water year. Figures show the location of climatological observation stations and ground water basins; the fluctuation of average ground water level; fluctuation of water level in wells; the location of surface water measurement and surface water quality stations; and hydrographic unit boundaries.

INTRODUCTION

This bulletin contains data regarding climate, surface water, ground water levels, and surface and ground water quality. The data were collected by the Department of Water Resources and by various organizations cooperating with the Department.

The Department is currently reevaluating its methods of dissemination of hydrologic data with special emphasis being placed on relating current data to historic measurements. As an initial step, the table showing ground water levels for individual wells has been eliminated from this edition and more emphasis has been placed on water level changes with respect to time.

The Department's data files are being reorganized for more efficient retrieval of the data. This change will eliminate the need for publication of much of the basic data and will make it easier for the Department to respond to requests for specific data. Inquiries regarding local data should be directed to the District Offices listed as follows:

Central District P. O. Box 9137 3251 S Street Sacramento, CA 95816	San Joaquin District P. O. Box 2385 3374 East Shields Avenue Fresno, CA 93723
Northern District P. O. Box 607 2440 Main Street Red Bluff, CA 96080	Southern District P. O. Box 6598 849 South Broadway Los Angeles, CA 90055

Inquiries regarding statewide data should be directed to the Division Office:

Division of Resources Development
P. O. Box 388
1416 Ninth Street
Sacramento, CA 95802

Federal and local agencies also are maintaining substantial data files. A partial listing follows:

<u>Federal Agencies</u>	
U. S. Army, Corps of Engineers Sacramento District 650 Capitol Mall Sacramento, CA 95814	U. S. Army, Corps of Engineers San Francisco District 100 McAllister Street San Francisco, CA 94102
U. S. Department of the Interior Geological Survey Water Resources Division 855 Oak Grove Avenue Menlo Park, CA 94025	U. S. Department of the Interior Geological Survey Water Resources Division 2800 Cottage Way Sacramento, CA 95825
U. S. Department of the Interior Bureau of Reclamation Mid-Pacific Regional Office 2800 Cottage Way Sacramento, CA 95825	

Local Agencies

City of San Francisco
855 Harrison Street
San Francisco, CA 94107

Pacific Gas and Electric Company
245 Market Street
San Francisco, CA 94106

East Bay Municipal Utility District
2130 Adeline Street
Oakland, CA 94623

Santa Clara County Flood Control
and Water District
5750 Almaden Expressway
San Jose, CA 95118

Marin Municipal Utility District
220 Nellen Avenue
Corte Madera, CA 94925

Appendix A
CLIMATOLOGICAL DATA

This appendix contains monthly precipitation data for certain climate stations for the 1972 water year, October 1, 1971, through September 30, 1972. Additional precipitation data, as well as data concerning air temperature, wind, and evaporation, are available in the National Weather Service's publications "Climatological Data - California"; and, for particular key stations, "Local Climate Data". These publications can be obtained from:

Superintendent of Documents
Government Printing Office
Washington, D. C. 20402

Other agencies within the area covered by this report have established their own supplemental rain gage networks. Some of these agencies are: Alameda County Flood Control and Water Conservation District; City of San Francisco; Contra Costa County Flood Control and Water District; East Bay Municipal Utility District; Marin Municipal Water District; Marin County Department of Public Works; Monterey County; San Benito County; San Luis Obispo County Flood Control and Water District; Santa Clara County Flood Control and Water District; Santa Cruz County Department of Public Works; Sonoma County Water Agency; U. S. Department of the Army, Corps of Engineers, San Francisco District.

Each station in this appendix has been assigned an identification number. The letter and first digit denote the hydrographic unit as shown below. The remaining digits denote the sequence of the station in alphabetical order.

Central Coastal Area

- D0 Santa Cruz Coast
- D1 Pajaro-San Benito Rivers
- D2 Lower Salinas River
- D3 Upper Salinas River
- D4 Monterey Coast
- T9 Upper Salinas River

San Francisco Bay Area

- E0 San Francisco Bay
- E1 Coast-Marin
- E2 Marin-Sonoma
- E3 Napa-Solano
- E4 East Bay
- E5 Alameda Creek
- E6 Santa Clara Valley
- E7 Bayside-San Mateo
- E8 Coast-San Mateo

North Coastal Area

- F8 Mendocino Coast
- F9 Russian River

FIGURE A-I SHEET 1 OF 3

LEGEND

TYPE OF DATA

- PRECIPITATION ONLY
- PRECIPITATION, STORAGE
- PRECIPITATION AND TEMPERATURE
- PRECIPITATION, TEMPERATURE AND EVAPORATION

TYPE OF GAGE

- NON-RECORDING
- RECORDING
- BOTH TYPES

HYDROGRAPHIC SUB-AREA NUMBER

HYDROGRAPHIC AREA BOUNDARY

HYDROGRAPHIC SUB-AREA BOUNDARY

E2

SCALE OF MILES
0 5 10



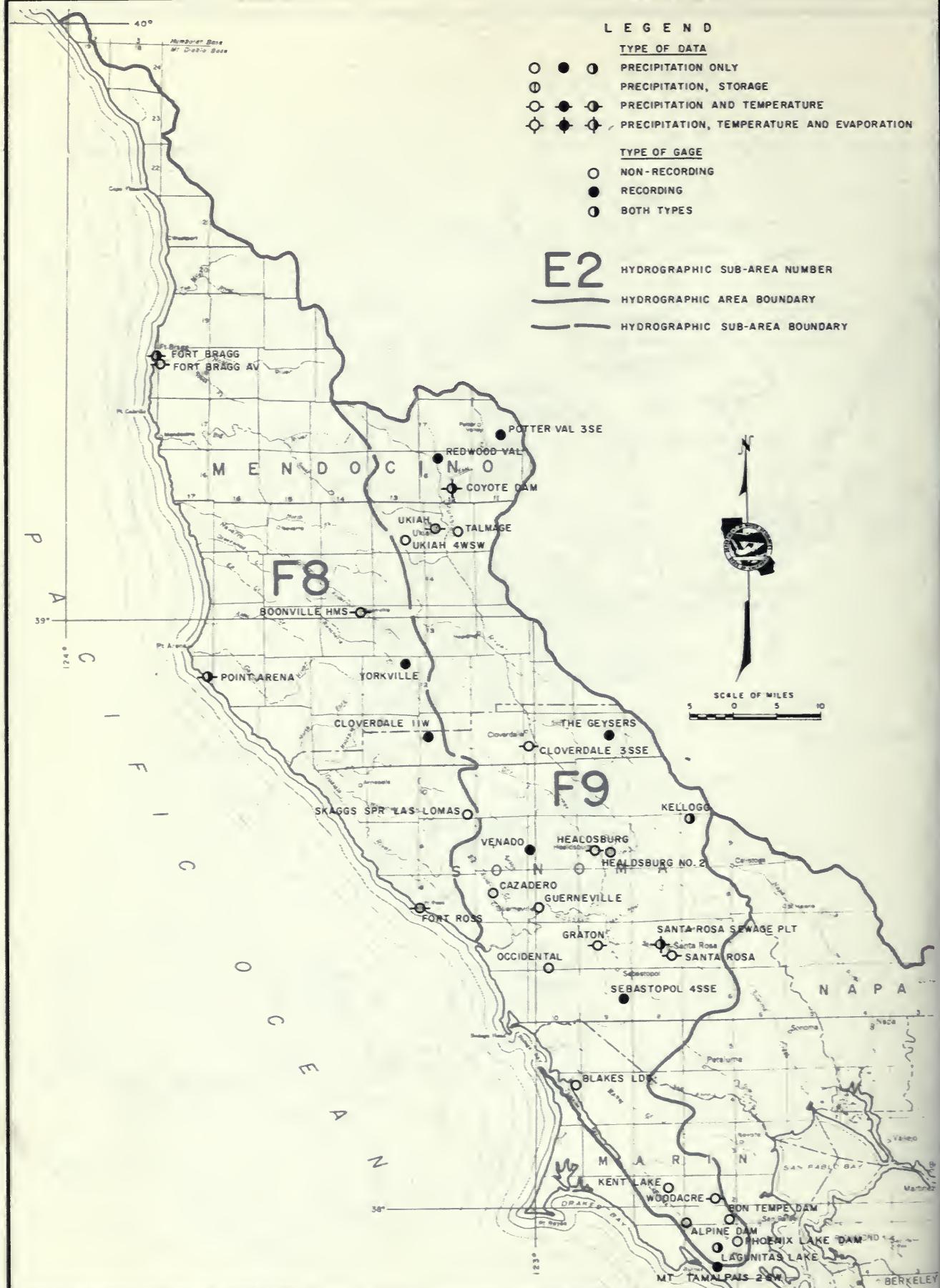
CLIMATOLOGICAL OBSERVATION STATIONS 1971 - 72

FIGURE A-1 SHEET 2 OF 3



CLIMATOLOGICAL OBSERVATION STATIONS 1971 -72

FIGURE A-I SHEET 3 OF 3



CLIMATOLOGICAL OBSERVATION STATIONS 1971 - 72

TABLE A-1

PRECIPITATION IN CENTRAL COASTAL AREA
DURING WATER YEAR 1972

This table summarizes monthly precipitations totals for selected stations for the 1972 water year, October 1, 1971, through September 30, 1972. The table shows each station's assigned number in accordance with the explanation given in the introduction to this appendix. Location is shown by latitude and longitude in degrees to the third decimal.

Precipitation values are shown to the nearest hundredth (.01) of an inch. Where Fischer & Porter rain gages are used, a zero is shown in the second decimal place, even though these instruments record to only the nearest tenth (.1) of an inch. The following notations are used to qualify the values:

- No record or incomplete record
- B Record began
- E Wholly or partially estimated
- N Record ends
- T Trace, an amount too small to measure

The county code shown for each station is in accordance with the Standard California County Codes shown below.

Alameda	60	Marin	21	San Mateo	41
Alpine	02	Mariposa	22	Santa Barbara	42
Amador	03	Mendocino	23	Santa Clara	43
Butte	04	Merced	24	Santa Cruz	44
Calaveras	05	Modoc	25	Shasta	45
Colusa	06	Mono	26	Sierra	46
Contra Costa	07	Monterey	27	Siskiyou	47
Del Norte	08	Napa	28	Solano	48
El Dorado	09	Nevada	29	Sonoma	49
Fresno	10	Orange	30	Stanislaus	50
Glenn	11	Placer	31	Sutter	51
Humboldt	12	Plumas	32	Tehama	52
Imperial	13	Riverside	33	Trinity	53
Inyo	14	Sacramento	34	Tulare	54
Kern	15	San Benito	35	Tuolumne	55
Kings	16	San Bernardino	36	Ventura	56
Lake	17	San Diego	90	Yolo	57
Lassen	18	San Francisco	80	Yuba	58
Los Angeles	70	San Joaquin	39	Oregon	61
Madera	20	San Luis Obispo	40	Nevada	62
				Arizona	63
				Mexico	64

TABLE A-1 (Cont.)
PRECIPITATION IN CENTRAL COASTAL AREA DURING WATER YEAR 1972

CD	STA NO.	LAT	LONG	ELEV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
07	E40006400	37.856	122.033	410	ALAMO IN	11.22	.00T	.88	5.03	1.35	1.84	.16	1.50	.00T	.15	.00T	.00	.31
21	F90013500	37.941	122.638	680	ALPINE DAM	.00-	.45	3.94	8.60	3.65	6.16	1.10	2.10	.00-	.00-	.00-	.00-	.00-
28	E30212100	38.571	122.434	1815	ANGWIN PACIFIC UNION C	25.92	.37	3.15	8.77	3.91	4.37	1.00	2.59	.08	.38	.00T	.01	1.29
27	D20032200	36.233	121.483	800	ARROYO SECO	11.39	.05	1.25	6.85	1.14	.98	.00	1.03	.00	.00	.00	.00	.09
28	E30368000	38.433	122.255	1660	ATLAS ROAD OUTRA	.00-	.20	1.80	7.00	3.60	.00-	.00-	2.70	.60	.30	.00	.00	1.00
35	D10055000	36.455	120.988	1630	BAUMGARTNER RANCH	10.08	.17	1.62	6.14	.77	4.38	.00	.73	.00	.12	.00	.00	.15
44	D00057700	37.083	122.066	720	BEN LONDON NO. 3	26.83	.07	3.94	11.13	3.18	2.74	.34	3.20	.14	.21	.08	.00	1.80
60	E40069300	37.866	122.250	299	BERKELEY	13.54	.06	1.84	4.72	1.65	1.96	.32	1.43	.02	.37	.00T	.00	1.17
43	E60074000	37.255	122.650	577	BIG BASIN WAY	.00-	.04	1.50	10.85	2.40	1.48	.14	1.80	.00	.05	.00T	.00	.00
27	D40079000	36.236	121.783	235	BIG SUR STATE PARK	23.46	.25	3.66	13.33	1.36	2.94	.07	1.42	.10	.15	.00T	.00	.18
48	E30081448	38.138	121.864	60	BIRDS LANDING	8.29	.00T	.89	3.61	.84	.93	.10	.91	.41	.00	.00	.00	.60
43	F60085000	37.300	122.166	2331	BLACK MTN 2 SW	20.60	.15	3.29	9.03	2.12	2.62	.39	1.58	.26	.28	.03	.02	.83
21	F10087600	38.194	122.916	40	BLAKES LANDING	.00-	.35	2.80	7.60	2.45	3.20	.65	1.80	.00	.00	.00	.00	.00
21	F90096900	37.956	122.610	723	BON TEPE DAM	.00-	.19	4.29	10.87	2.61	5.34	1.07	3.20	.00	.00	.00	.00	.00
23	F8n097300	39.015	123.372	342	BOONVILLE HMS	28.60	.31	6.29	8.86	2.92	3.52	2.15	2.74	.35	.22	.00	.02	1.22
44	D00100500	37.142	122.195	2175	BOULDER CREEK LOCATELL	36.68	.10	5.56	13.99	3.48	4.35	.70	5.20	.20	.50	.10	.00	2.50
27	D30103400	35.866	120.800	540	BRADLEY	.00-	.21	.59	.00N									
27	D3n114200	35.800	121.083	925	BRYSON	12.25	.22	1.27	7.92	.75	.84	.00	1.15	.00	.07	.00	.00	.03
41	E7n120600	37.583	122.350	1n	BURLINGAME	10.55	.13	1.16	4.28	1.20	2.21	.20	.81	.00	.20	.00	.00	.36
07	E4n121600	37.866	122.083	530	BURTON RANCH	13.52	.03	1.15	5.32	1.60	2.69	.17	2.05	.00T	.15	.00	.00	.36
44	D1n124700	37.033	121.833	1275	BUZZARD LAGOON	21.90	.36	3.42	9.05	2.61	3.24	.00	2.50	.00	.12	.00	.00	.60
6n	E5n128100	37.486	121.918	845	CALAVERAS RESERVOIR	11.91	.15	1.53	5.47	1.44	1.01	.27	1.04	.00	.15	.00	.00	.88
28	E3n131200	38.584	122.582	364	CALISTOGA	22.09	.43	2.32	7.64	3.04	3.79	1.24	2.42	.06	.25	.00	.04	.86
43	E6n137700	37.283	121.950	192	CAMPRELL WATER CO	9.28	.00T	.77	4.59	1.33	.47	.09	.46	.00T	.11	.00	.00	.46
27	D4n153400	36.483	121.733	425	CARMEL VALLEY	8.59	.14	1.78	4.31	1.03	.70	.01	.57	.05	.00	.00	.00	.00
49	F9n160200	38.529	123.126	1040	CAZADERO	47.30	1.54	6.63	12.97	6.05	7.17	3.63	5.15	.53	.27	.04	.65	2.67
6n	E6n164800	37.729	122.121	245	CHABOT RESERVOIR	.00-	.09	1.66	3.94	1.14	1.53	.30	1.45	.04	.31	.00	.00	.00
44	D1n173901	36.902	121.604	104	CHITTENDEN	10.23	.00T	1.62	4.63	1.40	1.38	.03	1.08	.00	.04	.00T	.00	.05
35	D1n176600	36.715	121.346	900	CIENEGA	8.83	.06	1.69	4.80	.96	.53	.05	.64	.00	.04	.00	.00	.06
49	F9n183800	38.766	122.983	320	CLOVERDALE 3 SSE	.00-	.39	.00-	7.95	2.40	2.97	1.51	3.04	.33	.11	.00	.06	1.10
49	F9n184000	38.766	123.216	1820	CLOVERDALE 11 W	.00-	.79	5.53	9.54	5.40	.00-	.00-	.00-	.00-	.19	.00	.00	.00
48	E3n191900	38.090	121.854	34	COLLINSVILLE	6.13	.00	.28	2.72	.64	1.36	.00	.67	.00	.21	.00	.00	.25
07	E4n196200	37.966	121.983	200	CONCORD 3 E	8.63	.14	.72	3.76	.98	1.09	.20	1.00	.00	.16	.00	.00	.58
44	D00204800	36.983	121.800	260	CORRALITOS	11.45	.10	3.10	1.75	2.20	2.00	.20	1.70	.00	.10	.00	.00	.30
43	E6n209800	37.286	122.018	COX AVENUE	40.33	.02	.78	6.72	1.37	.73	.07	.70	.00-	.05	.00	.00	.00	.00
23	F9n215000	39.183	123.183	720	COTYOTE DAM	24.33	.63	3.93	6.44	3.97	3.32	2.12	2.06	.75	.21	.00	.02	.88
44	D00215900	37.084	122.133	2640	CREST RANCH	.00-	.18	5.70	12.66	3.00	4.27	.37	4.84	.43	.20	.00	.00	.00
07	E4n217700	38.033	122.216	12	CROCKETT	11.66	.03	2.03	4.32	.99	1.73	.09	1.35	.00	.16	.00	.00	.96
44	D00229000	37.016	122.200	273	DAVENPORT	20.12	.00T	3.13	8.37	1.77	2.07	.30	2.11	.00	.48	.00T	.00	1.89
27	D2n2362J00	36.600	121.866	46	DEL MONTE	.00-	.00	1.10	.00-	.00-	.00-	.00	.40	.10	.00	.00	.00	
28	E3n254000	38.201	122.303	20	DUTTONS LANDING	12.78	.15	2.15	4.35	1.56	1.62	.29	1.18	.11	.21	.00	.00	1.16
48	E3n293360	38.250	122.040	13	FAIRFIELD	.00-	.00	1.37	3.88E	.00-	1.30	.00-	.80	.00	.20	.00	.00	1.00
35	D2n350200	36.533	121.283	2350	GONZALES 9 ENE	8.53	.28	1.36	4.78	.78	.65	.00	.48	.00	.00	.00	.00	.20
23	F8n316100	39.445	123.896	80	FORT BRAGG	31.57	1.16	3.89	5.79	4.78	5.79	3.83	2.17	.71	.50	.04	.22	2.69
23	F8n316400	39.392	123.814	74	FORT BRAGG AVIATION	.00-	.00-	3.25	6.13	.00-	.00-	.00-	.00-	.00-	.08	.07	.00	.00
27	D2n3181600	36.683	121.766	134	FORT ORD	5.85	.03	1.82	1.83	.70	.83	.02	.49	.02	.02	.00	0.00	0.00
49	F8n319100	38.516	123.25n	116	FORT ROSS	26.24	1.11	3.60	7.36	4.61	2.35	2.38	.24	.26	6.01	.025	1.72	
44	D1n323200	37.050	121.816	1495	FREEDOM 8 NNW	.00-	.19E	2.01E	9.43	3.22	2.70	.00-	2.67	.05	.00	0.00	0.00	0.00
35	D1n323800	36.760	121.498	2500	FREMONT PEAK	13.40	.03	2.13	5.38	1.86	2.06	.14	1.34	.20	.08	.07	.00	.11
35	D1n324500	36.948	121.233	1827	FRENCH RANCH	12.97	.55	2.45	5.45	1.22	2.08	.00	1.22	.00	.00	.00	.00	.00
43	E5n338700	37.366	121.486	2140	GERBER RCM	9.33	.07	.70	5.08	1.29	.99	.01	.73	.07	.06	.00	.00	.33
43	D1n341700	37.000	121.566	194	GILROY	11.32	.06	1.59	5.67	1.07	1.12	.02	.83	.02	.12	.00T	.00	.02
43	D1n341900	37.033	121.450	1050	GILROY 8 NE	9.00	.02	1.34	4.19	1.55	1.07	.05	.78	.00	.00	.00	.00	.00
43	D1n342200	37.100	121.333	1350	GILROY 14 ENE	9.98	.00	1.14	5.14	1.52	1.20	.00T	.86	.01	.11	.00T	.00	.00T
49	F9n357800	38.433	122.883	210	GRATON 1 W	22.60	.55	3.08	7.54	2.47	4.24	1.14	2.79	.10	.13	.00	.09	.47
27	D2n359100	36.323	121.243	280	GREENFIELD BAKER	5.41	.12	.38	3.68	.66	.40	.00	.32	.00	.05	.00	.00	.00
49	F9n368300	38.504	122.994	145	GUERNEVILLE	29.21	.91	4.18	9.51	3.50	4.90	1.62	3.09	.14	.06	.00	.00	.32
41	E6n371400	37.461	122.433	60	HALF MOON RAY	13.03	.23	2.29	5.10	1.27	1.33	.19	1.25	.11	.28	.00	.00	.98
27	D3n372200	36.000	00.000	000.000	725	HAMES VALLEY	5.58	.10	.72	3.47	.42	.32	.00	.55	.00T	.00	.00	
27	D2n377880	36.567	121.700	520	HARPER CANYON	10.91	.45	3.73	4.78	.83	.24	.04	.60	.22	.02	.00	.00	
60	E4n386300	37.652	121.985	715	HAYWARD 6 ESE	15.06	.00	2.17	5.78	1.85	1.92	.20	1.74	.00	.44	.00	.00	.96
49	F9n387500	38.616	122.833	101	HEALDSBURG 2 E	21.35	.43	3.00	7.77	2.02	2.92	1.23	3.12	.13	.06	.00T	.00T	.67
49	F9n387800	38.616	122.833	102	HEALDSBURG 2 E	21.30	.48	3.06	7.43	2.07	2.82	1.22	3.30	.13	.07	.00	.01	.71
35	D1n392500	36.416	120.916	2160	HERNANDEZ 2 NW	9.53	.18	1.61	5.78	.60	.41	.00	.79	.00T	.10	.00	.00	.06
35	D1n392800	36.300	120.700	2765	HERNANDEZ 7 SE	10.23	.27	1.07	5.82	.83	.90	.00	.94	.10	.20	.00	.00	.10
35	D1n402200	36.833	121.416	279	HOLLISTER 1 SW	4.66	.12	.59	2.06	.71	.68	.01	.41	.00	.07	.00	.00	.01
35	D1n402204	36.816	121.346	350	HOLLISTER COUNTY YD	5.20	.06	.76	3.07	.48	.47	.00	.34	.00	.02	.00	.00	.00
35	D1n402500	36.850	121.400	284	HOLLISTER 2	5.60	.10	.70	3.10	.50	.70	.00	.30	.00	.10	.00	.00	.10
35	D1n40																	

TABLE A-1 (Cont.)
PRECIPITATION IN CENTRAL COASTAL AREA DURING WATER YEAR 1972

CO	STA NO	LAT	LONG	ELFV	STATION NAME	TOTAL	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
07	E&n537200	37.966	122.100	280	MARTINEZ 3 SSE	10.38	.03	.95	4.41	1.27	1.96	.11	1.07	.00	.03	.00	.00	.55
07	E&n537800	38.016	122.116	40	MARTINEZ WATER PLANT	9.07	.01	.88	3.84	1.00	1.66	.32	.79	.00	.14	.00	.00	.43
43	E&n561200	37.383	121.816	470	MIGUELITO AVE STA	37.22	.02	.71	3.21	1.72	3.32	.00	.98	.00	.007	.00	.00	.00
27	D4n579500	36.600	121.900	335	MONTEREY	10.47	.09	1.99	4.76	1.23	1.05	.03	.88	.09	.15	.06	.04	.10
27	D4n579900	36.600	121.866	162	MONTEREY NAL	.00-	.04	.55	2.60	.00-	.61	.00N	.00-	.00-	.00	.00	.00	.00
43	E&n580300	37.200	121.983	696	MONTEVINA ROAD RES	.00-	.05	1.62	6.41	1.86	1.28	.19	1.66	.00	.007	.00	.00	.00
43	E&n584400	37.133	121.616	225	MORAN HILL 2 E	9.57	.06	.99	5.49	1.62	1.02	.17	.42	.00	.08	.00	.00	.02
43	E&n584600	37.151	121.766	665	MORGAN HILL 6 WNW	.00-	.00	.20	8.47	2.74	1.62	.10	1.49	.00-	.00	.00	.00	.00
43	D1n585300	37.133	121.656	35N	MORGAN HILL S C S	9.98	.10	2.18	5.10	1.80	.10	.10	.40	.00	.00	.10	.00	.10
07	E&n591500	37.868	121.934	2070	MOUNT DIABLO NCRTH GAT	13.40	.21	1.86	4.87	1.22	2.57	.20	1.72	.00	.00	.00	.00	.75
43	E&n593300	37.333	121.656	426	MOUNT HAMILTON	13.60	1.03	2.44	4.65	2.29	1.17	.25	1.24	.03	.00T	.00	.00	.50
44	D1n597300	37.016	121.716	1800	MOUNT MADONNA	16.56	.00	3.01	6.57	2.60	2.18	.15	1.77	.00	.11	.00	.00	.17
21	E2n599600	37.900	122.600	148N	MT TAMALPAIS 2 SW	.00-	.70	.00-	.00-	5.70	.00-	.00-	.00-	.00-	.00	.00	.00	.00
21	E3n602700	37.900	122.566	170	MUIR WCOOS	30.71	.45	5.08	8.74	5.23	4.77	1.17	2.53	.13	.79	.12	.32	1.38
28	E3n607400	38.277	122.266	73	NAPA STATE HOSPITAL	13.00	.09	2.30	4.81	.93	1.50	.15	1.62	.12	.25	.00	.00	1.23
60	E5n614400	37.521	122.078	14	NEWARK	6.34	.01	.81	2.91	.77	.65	.04	.38	.00	.20	.00	.00	.58
21	E2n629000	38.133	122.716	359	NOVATO R WNW	16.28	.28	2.44	6.13	1.97	2.88	.22	1.43	.00	.10	.00	.00	1.03
21	E2n629002	38.100	122.561	18	NOVATO FIRE HOLSE	15.43	.10	2.20	6.93	1.35	2.45	.25	1.27	.00	.25	.00	.00	.63
60	E4n633500	37.733	122.200	3	OAKLAND W& AP	9.86	.07	1.66	3.50	1.04	1.31	.25	.96	.05	.25	.00T	.00T	.77
28	E3n635100	38.446	122.018	165	OAKVILLE 1 WNW	18.65	.24	2.27	7.13	2.44	3.45	.60	1.63	.09	.15	.00	.00T	.65
28	E3n636300	38.398	122.466	1685	OAKVILLE 4 SW NO.2	23.95	.27	2.87	8.52	3.61	3.88	1.29	2.10	.00	.36	.00	.00	1.05
49	F9n637000	38.412	122.941	960	OCIDENTAL	34.00	.94	4.78	9.27	4.97	6.28	2.40	3.41	.25	.13	.00	.44	1.13
35	D1n661000	36.733	121.366	950	PAICINES OMRWALL RCH	.00-	.10	2.04	4.19	1.32	1.58	.18	1.02	.00-	.34	.00	.01	.90
43	E&n664600	37.445	122.139	43	PALO ALTO CITY HALL	6.63	.00	1.08	3.52	.89	.54	.00	.55	.00	.00	.00	.00	.05
27	D2n665000	36.35n	121.500	1835	PALOMA	13.46	.25	1.97	7.55	1.14	1.13	.04	.94	.12	.13	.00T	.00	.19
43	D1n669001	37.083	121.641	425	PARADISE VALLEY	11.73	.00	2.46	5.87	1.90	1.20	.00	.30	.00	.00	.00	.00	.00
27	D3n670300	35.883	120.433	1482	PARKFIELD	7.60	.01	.99	5.07	.49	.58	.00	.36	.00	.00	.04	.00	.06
49	E2n682600	38.241	122.628	16	PETALUMA F 5 NC 2	14.67	.21	2.37	5.48	1.67	2.40	.38	1.08	.00T	.15	.01	.00T	.92
21	F9n685300	37.955	122.573	175	PHOENIX LAKE DAM	.00-	.14	3.66	10.15	2.81	4.51	.15	4.41	.00-	.00	.00	.00	.00
41	E7n686300	37.557	122.416	625	PILARCITOS	24.77	.18	4.04	8.05	2.36	4.35	.62	2.82	.11	.51	.16	.02	1.55
35	D2n692600	36.483	121.183	1310	PINNACLES NAT MON	9.73	.15	1.16	6.54	.65	.34	.00	.64	.00T	.00T	.00	.25	
60	E5n69915	37.666	122.883	345	PLEASANTON NURSERY	11.56	.09	.89	5.55	1.54	1.63	.22	1.19	.00	.11	.00	.00	.34
23	F8n700900	38.916	123.700	122	POINT ARENA	29.72	.93	4.02	8.11	3.28	4.69	2.85	2.76	.27	.52	.00	.32	1.97
07	E4n707000	38.016	122.014	56	PORT CHICAGO NAO	7.89	.06	.79	3.40	1.04	1.09	.08	.86	.00	.16	.00	.00	.41
23	F9n71n800	39.30n	123.066	1100	POTTER VALLEY 3 SE	22.76	.55	3.91	5.23	3.66	3.78	1.82	1.53	.59	.19	.00	.08	1.42
27	D2n715000	36.183	120.700	2300	PRIEST VALLEY	11.72	.05	1.45	7.13	.94	.58	.00	.97	.05	.39	.00	.00	.16
35	D1n715000	36.858	121.196	163N	QUIEN SABE HAY CAMP	10.27	.35	1.68	4.88	1.05	1.11	.10	.93	.03	.00T	.00	.00	.14
35	D1n724900	36.836	121.213	1800	RANCHO QUIEN SABE	9.79	.46	1.70	4.76	1.13	.85	.06	.73	.00	.00	.00	.00	.10
41	E6n733900	37.483	122.233	31	PEWOOD CITY	9.06	.03	.81	4.36	1.15	1.21	.09	.86	.00	.08	.00	.00	.47
23	F9n733100	39.266	123.20n	718	REDWOOD VALLEY	.00-	.42	5.16	6.16	4.28	.00-	.00-	.00-	.00-	.00	.00	.00	
07	E4n741400	37.933	122.35n	55	RICHMOND	11.72	.03	1.83	4.41	1.18	1.79	.26	1.38	.00	.18	.00T	.00	.66
28	E6n743000	38.506	122.461	225	SAINT HELENA	21.09	.37	2.71	7.81	2.36	3.74	.80	2.42	.10	.13	.00T	.00T	.65
21	E3n746400	38.500	122.533	1792	SAINT HELENA 4 WSW	33.60	.60	3.70	10.30	5.60	6.30	1.80	3.00	.20	.50	.10	.20	1.30
07	E4n766100	37.841	122.106	620	SAIN T MARYS COLLEGE	15.37	.02	1.73	5.61	1.77	2.92	.17	2.37	.01	.22	.00	.00T	.55
27	D2n766800	36.666	121.616	700	SALINAS 2 E	7.22	.00	1.45	3.45	.98	.74	.06	.52	.00T	.00	.02	.00	.00T
27	D2n766900	36.666	121.600	800	SALINAS FAA AP	6.39	.00T	1.46	2.86	.94	.69	.01	.43	.00T	.00T	.00T	.00T	
27	D3n771200	35.814	120.934	800	SAN ANTONIO LAKE	6.52	.15	.67	4.24	.45	.32	.00	.53	.01	.15	.00T	.00	
27	D3n771400	34.016	121.259	1060	SAN ANTONIO MISSION	.00-	.06	1.17	7.49	.00N	.00	.00	.00	.00	.00	.00	.00	
27	D2n771600	34.033	120.900	440	SAN ARDO	4.27	.00	.40	2.86	.35	.20	.00	.36	.00	.10	0.00	0.00	0.00T
35	D1n771900	36.508	121.081	1355	SAN PENTITO	7.14	.22	1.10	4.19	.42	.42	.00	.56	.00	.00	.00	.00	.25
27	D4n773100	34.436	121.708	600	SAN CLEMENTE DAM	10.43	.24	1.43	5.64	1.19	.98	.01	.89	.08	.02	.00	.00	.03
43	D1n775500	37.016	121.333	365	SAN FELIPE HIGHWAY STA	8.87	.17	1.07	3.95	1.43	1.11	.00	.64	.00	.00	.00	.00	.00
80	E8n776700	37.766	122.500	300	SAN FRANCISCO SUNSET	11.21	.13	1.66	4.42	1.24	1.50	.29	.99	.00	.14	.00	.04	.80
41	E7n776900	37.616	122.308	8	SAN FRANCISCO W& AP	8.64	.03	.99	3.44	1.09	1.35	.18	1.20	.00T	.06	.00T	.00T	.30
80	E7n777200	37.783	122.416	52	SAN FRANCISCO F 0 8	11.41	.11	1.92	3.93	1.32	2.13	.23	1.07	.00T	.11	.01	.04	.54
41	E8n787000	37.303	122.36n	245	SAN GREGORIO 2 SE	17.32	.13	2.57	7.02	1.54	1.71	.32	2.07	.15	.25	.14	.05	1.37
43	E6n782100	37.350	121.900	70	SAN JOSE	6.85	.00T	.70	3.29	1.21	.33	.07	.51	.00T	.14	.00	.00	.60
43	E6n782401	37.316	121.950	90	SAN JOSE DE OCID F F S	6.62	.00T	.63	3.6n	.84	.38	.05	.34	.00	.18	.00	.00	.60
35	D1n783400	36.816	121.516	615	SAN JUAN BAUTIST 355E	8.96	.00	1.54	4.18	1.23	1.30	.05	.66	.00	.00	.00	.00	.00
49	F9n784500	36.848	121.533	200	SAN JUAN BAUTISTA MI	7.57	.00	.90	3.66	1.20	1.16	.00	.65	.00	.00	.00	.00	.00
41	E7n784600	37.566	122.316	30	SAN MATEO	9.56	.01	1.37	4.62	.98	1.65	.10	.67	.00	.12	.00	.00	.04
21	E2n788000	37.966	122.533	31	SAN RAFAEL	18.89	.04	3.64	6.75	1.99	.59	.29	.00	.22	.00	.00	.68	
43	E6n791200	37.347	121.94n	85	SANTA CLARA UNIVERSITY	6.91	.02	.63	3.64	.96	.36	.17	.29	.00	.20	.00	.00	.64
44	D6n791600	36.473	121.376	23n	SOLEADAC CTF	.00-	.00-	.505	.00-	.00-	.00-	.00-	.00-	.00-	.00-	.00	.00	.25
49	F9n7907200	38.351	122.811	145	SEASBASTOL 4 SSE	18.60E	.50	2.80	6.70	2.10	3.70	.70E	1.50	.10	.10	.00	.10	.30
43	E6n817000	37.253	121.953	322	SEVEN MILF RESERVOIR	.00-	.01	.82	5.71	1.73	.62	.03	.82	.00-	.10	.00T	.00-	.00
49	F9n827200	38.677	123.134	1930	SKAGGS SPRING LAS LDMA	38.87	.91	6.16	11.17	4.84	6.02	2.63	4.27	.42	.20	.00	.24	1.99
27	D2n844600	36.600	122.683	61	SPRECKELS HWY BRIDGE	6.72	.01	1.57	2.9n	.47	.72	.03	.47	.14	.00T	.00		



Appendix B

SURFACE WATER MEASUREMENTS

This appendix contains surface water data for the period from October 1, 1971, through September 30, 1972. These data consist of the amounts of water imported to the report area; daily mean gage heights; daily maximum and minimum tides; and corrections and revisions to previously published reports of surface water data. Station locations are shown on Figure D-1, sheet 2.

In addition to data collected and published by the Department of Water Resources in this appendix, the U. S. Geological Survey collects and publishes data on many additional gaging stations for the same report area. This work is done under a federal-state cooperative contract or through local cooperative arrangements with other local or governmental agencies. The data published in the following reports, together with this report, present a comprehensive analysis of water resources for the area:

1. "Water Resources Data for California, Part 1: Surface Water Records, Volume I: Colorado River Basin, Southern Great Basin, and Pacific Slope Basins excluding Central Valley". U. S. Geological Survey.
2. Bulletin No. 120, "Water Conditions in California, Fall Issue". Department of Water Resources.
3. Bulletin No. 157, "Index to Stream Gaging Stations in and Adjacent to California, 1970". Department of Water Resources. This index contains the period of record -- with the number of years missing -- and more information for stations in the report area. The index also identifies the agency from which a particular record may be obtained.

TABLE B-1
SURFACE WATER IMPORTS TO THE CENTRAL COASTAL AREA

IMPORT	1972 Water Year												TOTAL
	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	
<u>CITY OF VALLEJO FROM CACHE SLOUCH</u> a													
Total acre-feet	1,391	1,058	997	994	949	1,155	1,385	1,554	1,525	1,610	1,590	1,513	15,721
Average cubic feet per second	23	18	16	16	16	19	23	25	26	26	26	25	22
Monthly quantities in percent of seasonal	8.9	6.7	6.4	6.3	6.0	7.4	8.8	9.9	9.7	10.2	10.1	9.6	
<u>CONTRA COSTA CANAL</u> b													
Total acre-feet	7,273	5,054	5,631	4,076	4,034	5,780	9,541	13,105	13,623	11,137	13,210	11,534	103,998
Average cubic feet per second	118	85	92	66	70	94	161	213	229	181	215	194	143
Monthly quantities in percent of seasonal	7.0	4.8	5.4	3.9	3.9	5.6	9.2	12.6	13.1	10.7	12.7	11.1	
<u>HETCH HETCHY AQUEDUCT</u> c													
Total acre-feet	22,165	9,547	20,009	22,195	21,583	22,719	21,812	24,748	24,577	25,995	25,848	24,875	266,073
Average cubic feet per second	360	160	325	361	375	369	367	402	413	423	420	418	366
Monthly quantities in percent of seasonal	8.3	3.6	7.5	8.4	8.1	8.5	8.2	9.3	9.2	9.8	9.7	9.4	
<u>MOKELOMNE RIVER AQUEDUCT</u> d													
Total acre-feet	18,973	18,136	18,718	18,582	17,279	18,646	20,889	21,974	21,306	25,044	24,804	20,899	245,250
Average cubic feet per second	309	305	304	302	300	303	351	357	358	407	403	351	338
Monthly quantities in percent of seasonal	7.7	7.4	7.6	7.6	7.0	7.6	8.5	9.0	8.7	10.2	10.2	8.5	
<u>POTTER VALLEY POWERHOUSE FROM EEL RIVER</u> e													
Total acre-feet	10,150	10,670	15,300	18,560	13,280	18,080	15,910	14,790	5,640	15,100	11,150	17,140	165,800
Average cubic feet per second	165	179	249	302	231	294	267	241	95	246	181	288	228
Monthly quantities in percent of seasonal	6.1	6.4	9.2	11.2	8.0	10.9	9.6	8.9	3.4	9.1	6.8	10.4	
<u>PUTAH SOUTH CANAL</u> b *													
Total acre-feet	28,227	4,386	1,912	1,801	1,740	14,196	27,008	34,198	34,245	38,785	32,353	20,077	238,928
Average cubic feet per second	459	74	31	29	30	231	454	556	576	631	526	337	328
Monthly quantities in percent of seasonal	11.8	1.8	0.8	0.8	0.7	6.0	11.3	14.3	14.3	16.2	13.6	8.4	
<u>SOUTH BAY AQUEDUCT</u>													
Total acre-feet	973	5,531	8,297	7,610	6,244	14,895	18,330	19,502	15,474	10,453	15,770	11,824	134,903
Average cubic feet per second	16	93	135	124	109	242	308	317	260	170	256	199	186
Monthly quantities in percent of seasonal	0.7	4.1	6.2	5.6	4.6	11.0	13.6	14.5	11.5	7.7	11.7	8.8	

a Data furnished by City of Vallejo.

b Data furnished by U. S. Bureau of Reclamation.

c Data furnished by the City of San Francisco.

d Data furnished by East Bay Municipal Utility District.

e Data furnished by U. S. Geological Survey.

* Amounts are total diversion into the canal; an unknown portion of this is imported to the Central Coastal Area.

TABLE B-2
DAILY MEAN GAGE HEIGHT
 (IN FEET)

	WATER YEAR	STATION NO.	STATION NAME
	1972	E31400	RECTOR RESERVOIR NEAR YOUNTVILLE

DAY	OCT.	NOV.	DEC.	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	DAY
1	353.32	349.59	346.36	349.18	352.28	358.29	359.84	359.93	358.91	357.25	352.81	348.64	1
2	353.20	349.49	346.31	349.27	352.39	358.40	359.85	359.90	358.85	357.13	352.68	348.49	2
3	353.10	349.37	346.27	349.32	352.57	358.52	359.87	359.88	358.83	356.97	352.58	348.34	3
4	352.97	349.21	346.15	349.36	352.73	358.64	359.87	359.86	358.80	356.83	352.46	348.21	4
5	352.83	349.09	346.04	349.38	353.67	358.74	359.96	359.82	358.74	356.71	352.34	348.06	5
6	352.70	348.96	345.92	349.43	354.38	358.82	359.99	359.81	358.70	356.55	352.20	347.93	6
7	352.58	348.81	345.78	349.44	354.83	358.91	360.00	359.80	358.65	356.41	352.05	347.80	7
8	352.46	348.68	345.69	349.48	355.19	359.00	360.00	359.77	358.59	356.27	351.90	347.65	8
9	352.32	348.56	345.62	349.51	355.46	359.09	360.00	359.73	358.55	356.13	351.77	347.51	9
10	352.21	348.46	345.53	349.55	355.69	359.16	360.00	359.71	358.53	355.97	351.64	347.39	10
11	352.11	348.41	345.41	349.58	355.87	359.25	360.07	359.68	358.50	355.83	351.51	347.21	11
12	351.98	348.37	345.37	349.60	356.04	359.31	360.11	359.63	358.43	355.71	351.36	347.06	12
13	351.85	348.36	345.31	349.64	356.19	359.36	360.13	359.61	358.38	355.56	351.20	346.92	13
14	351.72	348.24	345.21	349.67	356.31	359.42	360.14	359.59	358.33	355.41	351.06	346.78	14
15	351.60	348.11	345.15	349.69	356.42	359.47	360.16	359.52	358.30	355.27	350.90	346.62	15
16	351.50	348.00	345.15	349.72	356.53	359.50	360.17	359.48	358.21	355.11	350.76	346.49	16
17	351.39	347.88	345.15	349.73	356.61	359.54	360.18	359.44	358.17	354.96	350.62	346.35	17
18	351.27	347.76	345.15	349.77	356.72	359.59	360.17	359.39	358.13	354.80	350.50	346.20	18
19	351.15	347.64	345.18	349.79	356.79	359.62	360.17	359.35	358.06	354.66	350.35	346.08	19
20	351.05	347.53	345.19	349.82	356.87	359.66	360.16	359.34	358.00	354.50	350.22	345.92	20
21	350.95	347.43	345.31	349.87	357.00	359.68	360.14	359.32	357.93	354.35	350.09	345.79	21
22	350.82	347.31	345.82	349.94	357.10	359.72	360.14	359.29	357.87	354.20	349.97	345.67	22
23	350.72	347.20	345.91	349.98	357.25	359.74	360.14	359.26	357.80	354.06	349.82	345.54	23
24	350.61	347.07	346.14	350.01	357.39	359.76	360.13	359.23	357.76	353.91	349.70	345.37	24
25	350.51	346.95	346.70	350.11	357.57	359.79	360.11	359.19	357.72	353.78	349.56	345.23	25
26	350.40	346.84	348.42	350.27	357.70	359.80	360.08	359.14	357.66	353.65	349.44	345.10	26
27	350.20	346.79	348.44	350.91	357.83	359.80	360.04	359.10	357.59	353.51	349.30	345.08	27
28	350.08	346.68	348.72	351.29	357.99	359.83	359.99	359.09	357.55	353.37	349.15	345.06	28
29	349.97	346.57	348.89	351.61	358.13	359.83	359.98	359.04	357.48	353.23	349.03	344.99	29
30	349.85	346.46	349.03	351.88		359.83	359.97	358.99	357.37	353.10	348.91	344.98	30
31	349.72		349.14	352.08		359.83			358.96		352.97	348.77	

MAXIMUM INSTANTANEOUS GAGE HEIGHTS

DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE	DATE	TIME	STAGE
4-18-72	0530	360.20									

LOCATION			MAXIMUM DISCHARGE			PERIOD OF RECORD		DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R. M.D.B.&M.	OF RECORD			DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
			CFS	GAGE HT.	DATE			FROM	TO		
38 26 24	122 20 36	SE 19 7N 4W						MAY 1948	-DATE	5-48	0.00 USCCS

Rector Reservoir is located on Rector Creek about 3 miles northeast of Yountville. Gaging station is located on the outlet tower of the reservoir. Elevation of reservoir floor is 250 feet. Spillway elevation is 370 feet.

TABLE B-3
DAILY MAXIMUM AND MINIMUM TIDES
(IN FEET)

WATER YEAR	STATION NUMBER	STATION NAME
1972	B91110	SACRAMENTO RIVER AT COLLINSVILLE

DATE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	DATE
1	5.08 1.47	5.76 1.31	6.43 1.25	6.45 1.32	5.69 1.69	5.02 1.81	5.50 1.46	5.61 1.04	6.05 1.47	5.90 2.14	6.09 2.34	6.74 2.21	1
2	5.60 1.59	5.07 1.24	7.09 1.53	6.27 1.49	5.21 1.48	5.17 1.95	5.57 1.45	5.66 1.14	5.78 1.59	5.92 2.33	6.42 2.25	6.52 2.23	2
3	5.57 1.74	5.06 1.06	6.64 1.23	5.78 3.13	4.93 2.23	5.37 1.96	5.75 1.64	5.79 1.42	5.34 1.56	5.95 2.28	6.69 2.22	6.36 1.99	3
4	5.92 1.80	6.29 1.22	6.22 3.23	5.29 1.28	5.35 1.85	5.42 1.86	5.71 1.54	5.87 1.78	5.38 1.60	6.12 2.46	6.71 2.06	5.19 1.90	4
5	6.21 1.72	6.38 3.22	5.71 1.04	4.99 1.26	5.69 2.40	5.27 1.63	5.99 2.05	5.35 1.31	5.73 1.81	6.39 2.28	6.69 1.87	6.20 1.90	5
6	6.38 1.81	6.07 1.30	5.46 0.97	5.16 1.46	5.53 2.16	5.31 1.69	5.51 1.52	4.93 1.23	6.17 2.43	6.48 2.04	5.03 1.81	6.12 2.09	6
7	6.56 3.15	5.92 1.24	4.47 0.84	5.43 1.86	5.34 1.76	5.49 1.74	5.02 1.25	4.89 1.31	6.59 2.28	6.50 1.68	6.82 2.09	6.06 2.24	7
8	6.46 1.77	5.47 1.36	4.71 0.82	5.56 2.18	5.53 1.65	5.98 2.11	4.96 1.17	5.11 1.41	6.81 2.15	4.76 1.48	6.87 2.19	5.82 2.37	8
9	6.24 1.84	4.99 1.43	4.97 0.94	5.39 1.73	5.76 1.60	5.65 1.71	5.04 1.39	4.36 1.76	4.91 1.88	6.60 1.46	6.75 2.26	5.85 2.61	9
10	5.92 1.77	5.08 1.37	5.28 1.33	5.31 1.24	5.93 1.51	5.58 1.46	5.17 1.63	5.39 1.52	6.77 1.45	6.51 1.41	6.51 2.32	5.91 2.54	10
11	5.57 1.70	5.66 1.61	5.27 1.59	5.39 1.03	6.00 1.40	5.66 1.41	5.62 2.17	5.72 1.31	6.66 1.28	6.54 1.49	6.08 2.26	5.98 3.02	11
12	5.41 1.59	5.67 2.12	6.02 1.85	5.75 1.08	6.06 1.39	5.75 1.46	5.69 2.05	6.05 1.18	6.64 1.34	6.29 1.47	5.70 2.24	5.75 2.37	12
13	5.49 1.68	5.86 2.25	5.60 1.31	5.86 1.08	6.11 1.52	5.79 1.60	6.08 1.72	6.33 1.20	6.72 1.52	5.94 1.47	5.82 2.40	5.85 2.14	13
14	5.49 2.09	5.46 1.62	5.92 1.50	5.98 1.08	6.08 1.51	5.59 1.66	5.96 1.35	6.55 1.30	6.50 1.60	5.75 1.73	5.89 2.69	5.87 2.12	14
15	5.68 2.23	5.52 1.29	5.82 1.09	6.06 1.16	5.67 1.37	5.43 1.80	6.30 1.41	6.55 1.39	6.04 1.52	5.97 2.23	5.78 2.61	5.95 2.19	15
16	5.64 2.31	5.42 1.12	5.75 0.84	6.14 1.25	5.32 1.39	5.68 1.85	6.49 1.52	6.43 1.43	5.50 1.54	6.15 2.75	5.83 2.21	6.06 2.21	16
17	5.70 2.16	5.77 1.21	5.81 1.00	6.11 1.34	5.14 1.65	6.12 1.98	6.27 1.23	5.94 1.24	5.55 1.69	6.10 2.80	5.96 2.02	5.99 2.19	17
18	5.65 1.83	5.96 1.09	6.14 1.22	5.92 1.42	5.51 1.95	6.39 1.90	6.00 1.07	5.51 1.31	5.95 2.36	6.25 2.88	6.17 1.97	6.03 2.02	18
19	5.66 1.77	6.03 1.27	6.09 1.24	5.53 1.47	6.09 2.13	6.19 1.53	5.49 0.85	5.31 1.49	5.94 2.70	6.42 2.70	6.16 1.99	5.66 1.86	19
20	5.84 1.66	5.98 1.27	6.01 3.35	5.15 2.47	5.94 1.73	6.25 1.59	5.22 1.04	5.24 1.74	6.00 2.46	6.36 2.52	6.20 1.81	4.91 1.67	20
21	5.73 1.46	5.94 1.32	5.64 1.25	5.23 1.45	6.09 1.65	6.32 1.71	4.80 0.98	5.19 1.63	5.95 1.99	6.32 2.10	6.17 1.81	5.66 1.82	21
22	5.90 3.37	5.68 1.27	6.16 1.60	5.57 1.73	6.17 1.63	6.32 1.81	4.57 1.21	5.54 1.96	6.25 1.89	6.43 1.91	4.95 1.75	5.62 2.08	22
23	6.02 1.68	5.29 1.24	5.42 2.14	6.03 1.90	6.07 1.48	5.53 1.15	4.94 1.74	5.75 1.96	4.53 1.90	4.93 1.94	6.27 2.01	5.79 2.10	23
24	5.91 1.72	4.91 1.10	5.84 1.79	5.86 1.39	6.06 1.43	5.31 1.26	5.35 1.90	4.47 1.80	6.07 1.66	6.56 1.88	6.33 2.06	6.00 1.97	24
25	5.47 1.59	4.79 1.14	6.07 2.21	6.67 1.84	5.97 1.37	5.29 1.39	5.20 1.58	5.93 1.78	6.24 1.76	6.43 1.71	6.11 2.16	6.26 2.02	25
26	5.30 1.36	4.96 1.06	6.47 2.41	6.48 1.61	5.84 1.39	5.04 1.42	5.21 1.42	6.06 1.70	6.44 1.97	6.35 1.74	6.14 2.48	6.53 3.05	26
27	5.18 1.38	5.35 1.46	6.81 2.11	6.74 1.57	5.68 1.51	5.01 1.58	5.47 1.41	6.18 1.62	6.45 1.87	6.21 1.67	6.20 2.68	6.55 2.06	27
28	4.48 1.06	5.93 1.77	6.75 1.76	6.07 1.08	5.82 1.93	5.07 1.74	5.68 1.39	6.26 1.59	6.35 1.78	6.05 1.83	6.25 2.74	6.40 1.98	28
29	4.69 0.84	6.32 1.73	6.76 1.50	6.02 1.24	5.38 1.72	5.24 1.61	5.31 0.85	6.19 1.48	6.15 1.73	5.87 2.03	6.26 2.37	6.25 1.89	29
30	5.17 1.30	6.45 1.39	6.65 1.40	5.86 1.31	5.29 1.54	5.39 0.89	6.11 1.44	5.91 1.64	5.74 2.16	6.44 2.17	6.18 1.87	30	30
31	5.50 1.50	6.56 1.37	5.81 1.55	5.46 1.51				6.07 1.42	6.81 1.27	5.83 2.17	6.62 2.19		31
MAXIMUM	6.56	6.45	7.09	6.74	6.17	6.39	6.49	6.55	6.81	6.60	6.87	6.74	MAXIMUM
MINIMUM	0.84	1.06	0.82	1.03	1.37	1.15	0.85	1.04	1.28	1.41	1.75	1.67	MINIMUM

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD			DATUM OF GAGE		
LATITUDE	LONGITUDE	1/4 SEC. T. & R., M.D.B. & M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		ZERO ON GAGE	REF. DATUM
								FROM	TO		
38 04 25	121 51 18	SW 27 3N 1E	9.2	4-6-1958		JUN 1929-DATE		1929	1929	0.00	USED USCGS
									1964	-3.05	USCGS
										-3.54	USCGS
										-3.00	USCGS

Station located 0.4 mile southwest of Collinsville, 3.3 miles northeast of Pittsburg.

TABLE B-3 (CONT.)
DAILY MAXIMUM AND MINIMUM TIDES
(IN FEET)

WATER YEAR	STATION NUMBER	STATION NAME												
			1972	E03300	SUISUN BAY AT BENICIA									

DATE	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	DATE	
1	2.89 -2.50	3.33 -2.65	3.98 -3.03	3.87 -3.09	3.11 -2.27	2.34 -2.21	2.79 -2.38	2.84 -2.83	3.18 -2.43	2.93 -1.84	3.41 -1.26	3.88 -1.81	1	
2	2.85 -2.42	3.64 -2.86	4.37 -2.91	3.67 -2.73	2.67 -2.40	2.50 -1.89	2.82 -2.35	2.84 -2.69	2.84 -2.26	3.06 -1.59	3.71 -1.43	3.73 -1.85	2	
3	3.02 -2.19	3.60 -3.13	4.18 -3.08	3.30 -2.81	2.35 -1.82	2.66 -1.83	2.90 -2.15	2.93 -2.35	2.44 -2.21	3.21 -1.55	3.81 -1.56	3.57 -2.03	3	
4	3.47 -2.19	3.79 -2.97	3.57 -3.27	2.62 -2.73	2.77 -1.00	2.64 -1.97	2.91 -2.13	2.83 -2.18	2.72 -2.05	3.42 -1.12	3.90 -1.97	3.49 -2.15	4	
5	3.78 -2.38	3.79 -2.86	3.08 -3.20	2.39 -2.35	3.06 -0.74	2.51 -0.74	3.16 -1.48	2.41 -2.42	3.15 -1.68	3.68 -1.65	4.00 -2.29	3.47 -2.18	5	
6	3.92 -2.35	3.39 -2.82	2.73 -3.22	2.60 -1.60	2.76 -1.35	2.47 -1.95	2.71 -2.13	1.99 -2.53	3.48 -1.03	3.79 -2.10	4.11 -2.36	2.81 -1.86	6	
7	4.03 -2.32	3.06 -2.60	1.74 -3.23	2.81 -0.89	2.46 -1.72	2.58 -1.78	2.21 -2.49	2.18 -2.43	3.90 -1.54	3.87 -2.54	4.08 -2.26	3.37 -1.73	7	
8	3.78 -2.29	2.69 0.26	2.08 -0.68	2.80 -1.25	2.66 -1.90	2.93 -1.57	2.16 -2.63	2.46 -2.35	4.14 -1.95	4.01 -2.85	2.73 -2.03	3.01 -1.54	8	
9	3.45 0.52	2.35 -2.41	2.42 -2.68	2.61 -1.76	2.91 -2.08	2.79 -2.00	2.42 -2.45	2.81 -1.93	4.21 -2.25	2.01 -3.01	4.01 -1.91	3.18 -1.13	9	
10	3.11 -2.34	2.43 -2.25	2.67 -1.96	2.52 -2.42	3.11 -2.39	2.82 -2.45	2.77 -2.23	3.17 -2.33	4.04 -2.82	3.96 -3.07	3.73 -1.84	3.28 -1.25	10	
11	2.82 -2.21	3.06 -1.82	2.58 -1.95	2.60 -2.81	3.19 -2.64	2.80 -2.59	3.11 -1.72	3.56 -2.73	2.09 -3.12	3.93 -2.91	3.36 -1.68	3.22 -1.37	11	
12	2.70 -2.20	3.04 -1.26	3.39 -1.80	2.93 -2.82	3.35 -2.73	2.95 -2.66	2.81 -1.75	1.83 -3.02	4.06 -3.01	3.67 -2.79	2.99 -1.53	3.05 -1.58	12	
13	2.67 -2.05	3.19 -1.51	2.81 -2.48	3.09 -2.89	3.46 -2.66	3.06 -2.54	3.42 -2.42	3.83 -3.13	4.07 -2.81	3.31 -2.61	3.11 -1.29	2.99 -1.66	13	
14	2.77 -1.61	2.74 -2.11	3.24 -2.39	3.33 -2.96	3.46 -2.67	2.93 -2.45	3.46 -2.85	4.03 -3.08	3.79 -2.62	2.96 -2.19	3.07 -0.99	2.94 0.60	14	
15	2.91 -1.53	2.90 -2.59	3.13 -2.94	3.44 -2.95	3.07 -2.77	2.88 -2.20	3.79 -2.83	3.94 -3.02	3.27 -2.53	3.26 -1.62	2.92 -0.45	2.93 -1.58	15	
16	3.07 -1.28	2.86 -2.78	3.06 -3.27	3.55 -2.88	2.74 -2.65	3.15 -2.13	3.95 -2.82	3.73 -2.88	2.67 -2.36	3.23 -1.05	2.91 -1.28	3.01 -1.55	16	
17	3.13 -1.57	3.08 -2.74	3.14 -3.08	3.52 -2.79	2.61 -2.26	3.60 -2.09	3.64 -3.04	3.22 -2.87	2.89 -1.98	3.24 -0.80	3.03 -1.53	3.04 -1.60	17	
18	3.05 -2.01	3.36 -2.84	3.48 -2.89	3.32 -2.67	3.03 -1.86	3.78 -2.28	3.26 -3.04	2.68 -2.63	3.17 -1.17	3.41 -1.01	3.16 -1.68	3.15 -1.78	18	
19	3.01 -2.12	3.33 -2.67	3.40 -2.89	2.89 -2.54	3.57 -1.66	3.55 -2.54	2.72 -3.11	2.59 -2.15	3.12 -0.82	3.48 0.50	3.27 -1.69	2.88 -1.95	19	
20	3.17 -2.23	3.25 -2.67	3.26 -2.81	2.58 -2.43	3.39 -2.08	3.55 -2.41	2.45 -2.78	2.57 -1.76	3.19 -1.27	3.48 -1.18	3.34 -1.94	3.01 -2.21	20	
21	3.05 -2.42	3.11 -2.70	2.99 -2.34	2.71 -2.01	3.43 -2.23	3.48 -2.26	2.02 -2.83	2.58 -1.84	3.26 -1.66	3.48 -1.64	3.39 -2.06	2.61 -2.03	21	
22	3.14 -2.21	2.86 -2.79	3.51 -1.75	3.03 -1.54	3.43 -2.29	3.48 -2.21	2.31 -2.48	2.85 -1.52	3.42 -1.64	3.56 -2.00	3.55 -2.20	3.02 -1.81	22	
23	3.17 -2.11	2.53 -2.76	2.74 -1.99	3.44 -1.91	3.36 -2.47	2.76 -2.82	2.74 -1.92	2.99 -1.71	3.32 -2.06	3.69 -2.08	2.48 -1.99	3.26 -1.81	23	
24	3.11 -2.20	2.12 0.11	3.25 -0.22	3.24 -2.50	3.39 -2.61	2.55 -2.78	2.52 -1.82	3.17 -1.86	3.54 -2.33	3.67 -2.23	3.60 -1.95	3.51 -1.98	24	
25	2.68 0.91	2.11 -2.69	3.55 -1.42	4.08 -2.26	3.34 -2.74	2.57 -2.55	2.59 -2.10	3.21 -2.05	3.71 -2.32	3.60 -2.35	3.41 -1.85	3.75 -1.93	25	
26	2.47 -2.34	2.36 -2.71	3.90 -1.30	3.79 -2.58	3.19 -2.76	2.38 -2.48	1.86 -2.31	3.31 -2.40	2.27 -2.26	3.48 -2.45	3.25 -1.51	4.02 -1.90	26	
27	2.29 -2.33	2.74 -2.18	4.18 -1.95	4.07 -2.72	3.07 -2.57	2.36 -2.25	2.88 -2.36	1.85 -2.57	3.66 -2.47	2.34 -2.37	3.52 -1.28	3.95 -1.96	27	
28	1.75 -2.79	3.43 -2.02	4.08 -2.53	3.50 -3.25	3.16 -2.10	2.43 -2.01	2.99 -2.62	3.32 -2.53	3.54 -2.53	3.30 -2.16	3.64 -1.46	3.72 0.45	28	
29	2.12 -3.03	3.75 -2.30	4.11 -2.88	3.49 -3.01	2.62 -2.34	2.55 -2.19	2.57 -2.99	3.33 -2.60	3.28 -2.51	2.96 -1.97	3.70 -1.66	3.47 -2.00	29	
30	2.67 -2.43	3.93 -2.82	4.05 -3.10	3.35 -2.90	2.65 -2.30	2.69 -2.98	3.33 -2.56	3.33 -2.36	3.13 -1.82	3.01 -1.82	3.76 -0.08	3.29 -2.01	30	
31	3.03 -2.26	4.03 -3.06	3.26 -2.53	2.74 -2.35	2.74 -2.35	3.26 -2.54	3.26 -2.54	3.26 -2.54	3.12 -1.66	3.84 -1.71	4.01 -1.71	4.11 -2.21	31	
MAXIMUM	4.03	3.93	4.37	4.08	3.57	3.78	3.95	4.03	4.21	4.01	4.11	4.02	MAXIMUM	
MINIMUM	-3.03	-3.13	-3.27	-3.25	-2.77	-2.82	-3.11	-3.13	-3.12	-3.07	-2.36	-2.21	MINIMUM	

LOCATION			MAXIMUM DISCHARGE OF RECORD			PERIOD OF RECORD			DATUM OF GAGE			
LATITUDE	LONGITUDE	1/4 SEC. T. & R., M.D.B. & M.	CFS	GAGE HT.	DATE	DISCHARGE	GAGE HEIGHT ONLY	PERIOD		REF. DATUM		
								FROM	TO			
38 02 27	122 08 04	SW 6	ZN	ZW	5.7	4-6-1958		JUN 29-APR 40	1929	1940	-2.21	USCGS
								APR 40-DATE	1940	1942	-5.00	USCGS
								1942			0.00	USCGS

Station located on channel side of wharf (formerly located on inshore side of wharf) immediately southeast of Benicia. Period of record intermittent from 1929 to 1940.

TABLE B-4
CORRECTIONS AND REVISIONS TO PREVIOUSLY PUBLISHED REPORTS OF SURFACE WATER DATA

Location of Error or Revision				Change or Revision		
Report	Page	Mile & Bank	Name	Item	From	To
Bulletin No. 23-62	394		Suisun Bay at Benicia Arsenal	<u>1962</u> Daily Maximum and Minimum Tides for the period 3-1-62 to 3-28-62, inclusive Maximum for March 1962	Published values	2.00 feet lower than published values 14.72
Bulletin No. 130-63	B-7		Suisun Bay at Benicia Arsenal	<u>1963</u> Maximum Gage Height of Record Date of Maximum Gage Height of Record	6.72	5.7 3-5-62
Bulletin No. 130-64	48		Suisun Bay at Benicia Arsenal	<u>1964</u> Maximum Gage Height of Record Date of Maximum Gage Height of Record	6.72	5.7 3-5-62
Bulletin No. 130-64	52		City of Vallejo from Cache Slough	Total acre-feet Average cubic feet per second Monthly quantities in percent of seasonal	Published values	Values published in Bulletin No. 130-66 Table B-2 Values published in Bulletin No. 130-66 Table B-2 Values published in Bulletin No. 130-66 Table B-2
Bulletin No. 130-67	44		Sacramento River at Collinsville	<u>1967</u> Daily Maximum and Minimum Tides		<u>Notation:</u> In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.
Bulletin No. 130-67	45		Suisun Bay at Benicia Arsenal	Daily Maximum and Minimum Tides		<u>Notation:</u> In order to machine process the data it was necessary to avoid negative gage heights. Subtract 10.00 feet to obtain gage heights.

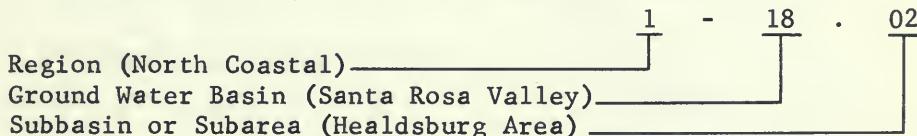
Appendix C
GROUND WATER MEASUREMENTS

This appendix contains summary and selected information concerning the level of ground water within 32 ground water basins or areas in the Central Coastal Area. Wells are selected to reflect the ground water conditions of the area. These wells are continuously reviewed and, when conditions dictate, replacement wells are located and measured.

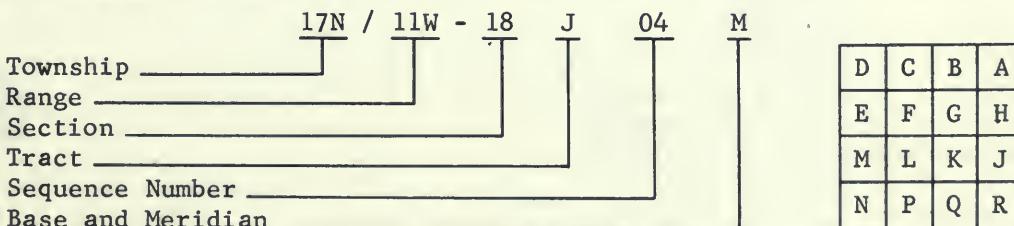
The tabulation of individual measurements of ground water levels at wells has been eliminated from this report. The data collected by the Department will be available at the various district offices of the Department. Please see the introduction at the front of this volume for the addresses of these district offices.

Table C-1 shows the average change in ground water levels for the various basins in the Central Coastal Area from spring 1971 to spring 1972. This table also shows the number of well measurements included in the separate publication. Figure C-2 contains graphical presentations of the average levels of ground water in the spring for the past several years. Figure C-3 is a graphical representation of the fluctuation of ground water level in certain selected wells for the past several years. An attempt has been made to select wells that represent conditions in the basin where the well is located. However, some caution in the use of these data is in order because ground water conditions can vary markedly with relatively small changes in horizontal location.

Two numbering systems are used by the Department to facilitate processing of water level measurement data. The two systems are the Region and Basin Designation and the State Well Numbering System. The regions used in Bulletin No. 130 are geographic areas defined in Section 13200 of the Water Code. This volume comprises the southern portion of North Coastal Region No. 1, the northern portion of Central Coastal Region No. 3, and all of San Francisco Bay Region No. 2. A decimal system of the form 0-00.00 has been selected according to geographic regions, ground water basins, and subbasins or subareas as follows:



The State Well Numbering System is based on township, range, and section subdivisions of the public land survey. The number of a well, assigned in accordance with this system, is referred to as the State Well Number, as illustrated below on the left.

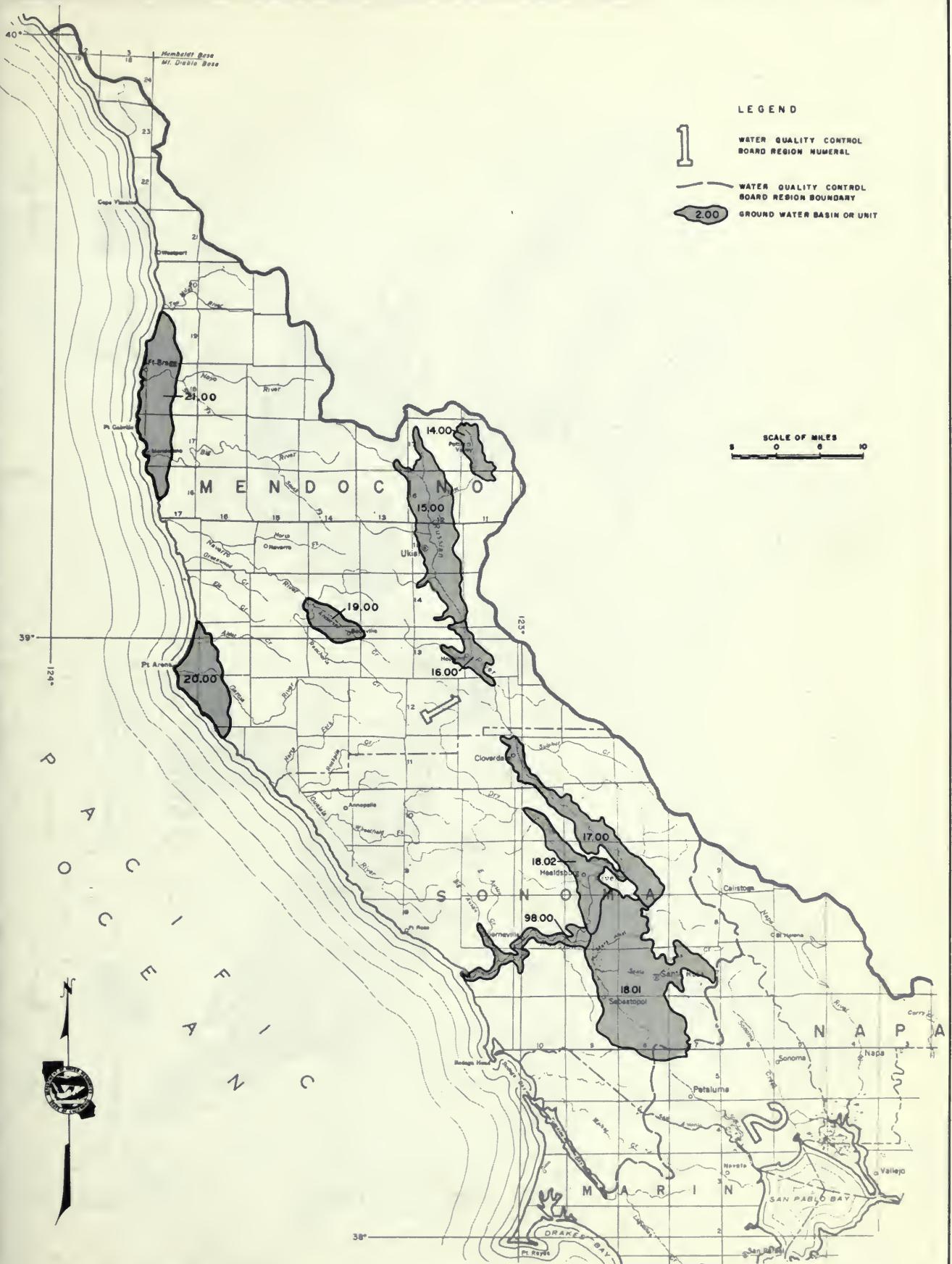


This number identifies and locates the well. In the example, the well is in Township 17 North, Range 11 West, Tract J of Section 18, located in the Mount Diablo Base and Meridian. A section is divided into 40-acre tracts as shown above on the right. Sequence numbers in a tract are generally assigned in chronological order. The example designates the fourth well to be assigned a number in Tract J.

INDEX TO GROUND WATER MEASUREMENT DATA
IN THE CENTRAL COASTAL AREA

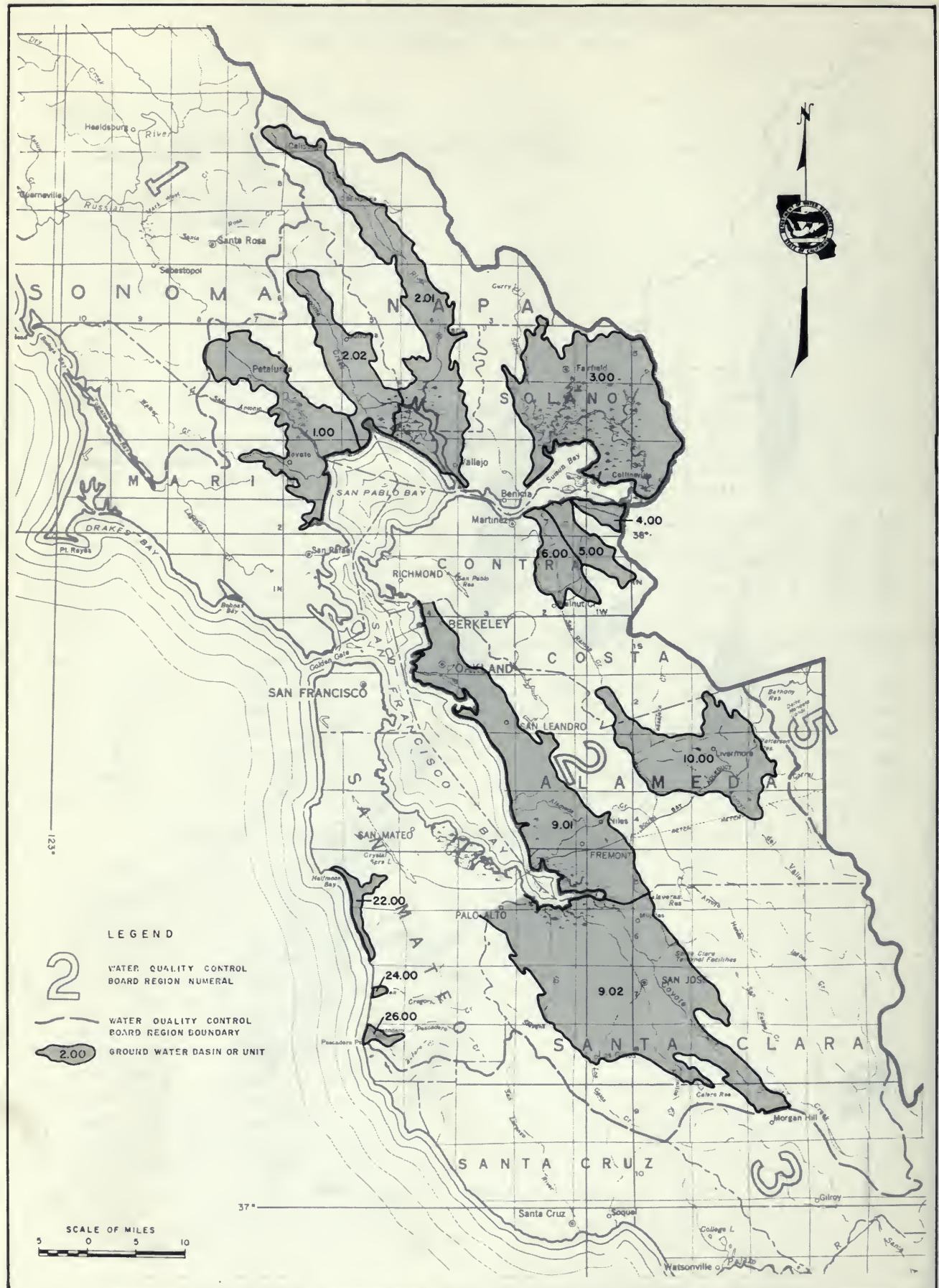
<u>Number</u>	<u>Basin</u>	<u>Page</u>
NORTH COASTAL REGION 1-00.00 (Figure C-1, Sheet 1)		
1-14.00	Potter Valley	22, 23
1-15.00	Ukiah Valley	22, 23, 27
1-16.00	Sanel Valley	22, 23, 27
1-17.00	Alexander Valley	22, 23, 27
1-18.00	Santa Rosa Valley	
1-18.01	Santa Rosa Area	22, 23, 27
1-18.02	Healdsburg Area	22, 23, 27
1-19.00	Anderson Valley	
1-20.00	Point Arena	
1-21.00	Fort Bragg Terrace	
1-98.00	Lower Russian River Valley	
SAN FRANCISCO BAY REGION 2-00.00 (Figure C-1, Sheet 2)		
2-01.00	Petaluma Valley	22, 24, 28
2-02.00	Napa-Sonoma Valley	
2-02.01	Napa Valley	22, 24, 28
2-02.02	Sonoma Valley	22, 24, 28
2-03.00	Suisun-Fairfield Valley	22, 24, 28
2-04.00	Pittsburg Plain	22, 24
2-05.00	Clayton Valley	
2-06.00	Ygnacio Valley	22, 25, 28
2-09.00	Santa Clara Valley	
2-09.01	East Bay Area	22, 25, 29
2-09.02	South Bay Area	22, 25, 29, 30
2-10.00	Livermore Valley	22, 25, 30
2-22.00	Half Moon Bay Terrace	25, 31
2-24.00	San Gregorio Valley	26, 31
2-26.00	Pescadero Valley	26, 31
CENTRAL COASTAL REGION 3-00.00 (Figure C-1, Sheet 3)		
3-01.00	Soquel Valley	26, 31
3-02.00	Pajaro Valley	22
3-03.00	Gilroy-Hollister Valley	
3-03.01	South Santa Clara County	22, 26, 32
3-03.02	San Benito County	22, 26, 31
3-04.00	Salinas Valley	
3-04.01	Pressure Area	22, 32
3-04.02	East Side Area	22
3-04.03	Forebay Area	22
3-04.04	Arroyo Seco Cone	22
3-04.05	Upper Valley Area	22, 32
3-04.06	Paso Robles Basin	22
3-04.08	Seaside Area	22
3-04.09	Langley Area	22
3-04.10	Corral De Tierra Area	22
3-07.00	Carmel Valley	22
3-26.00	West Santa Cruz Terrace	

FIGURE C-1 Sheet 1 of 3



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

FIGURE C-1 Sheet 2 of 3



GROUND WATER BASINS IN THE CENTRAL COASTAL AREA

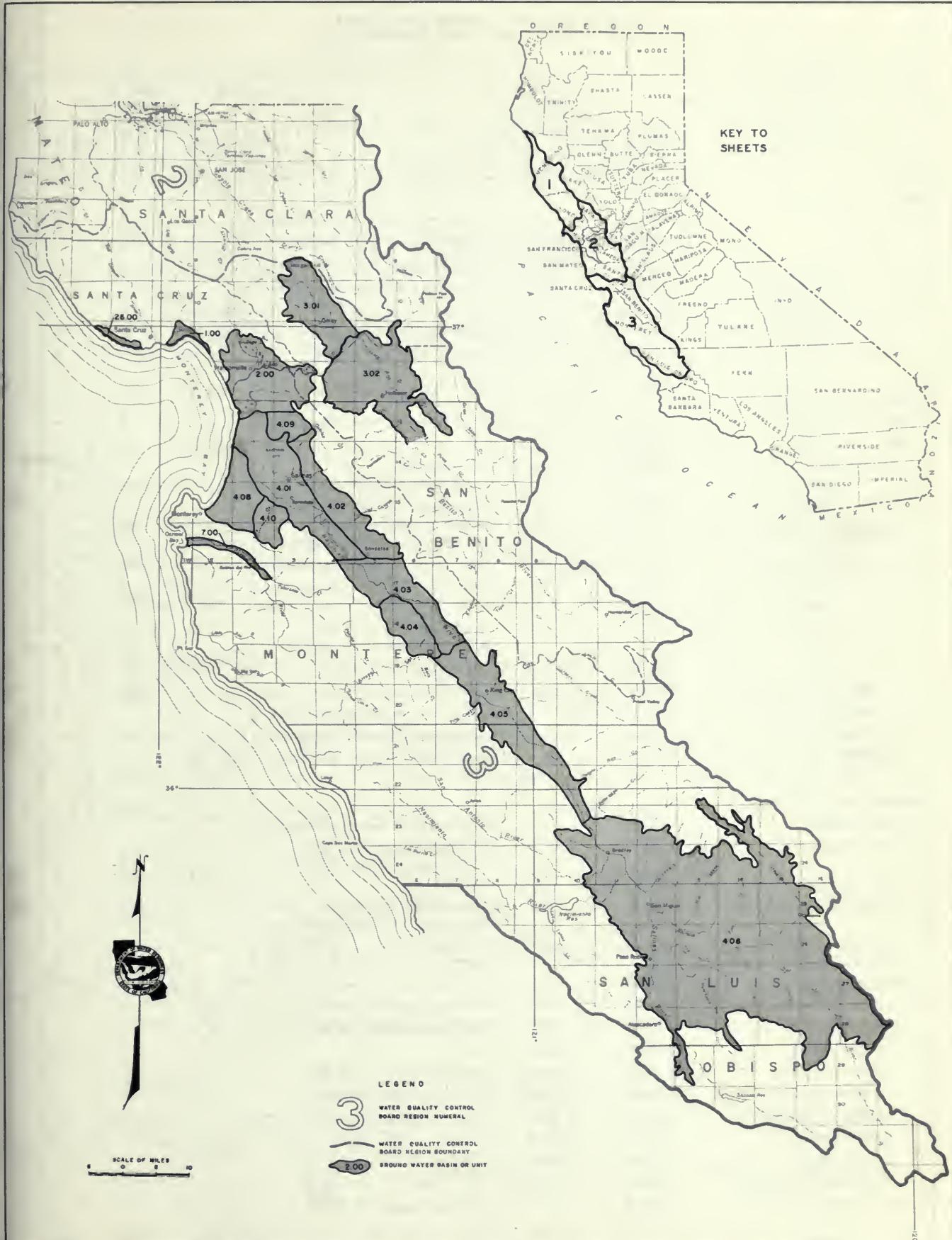


TABLE C-1

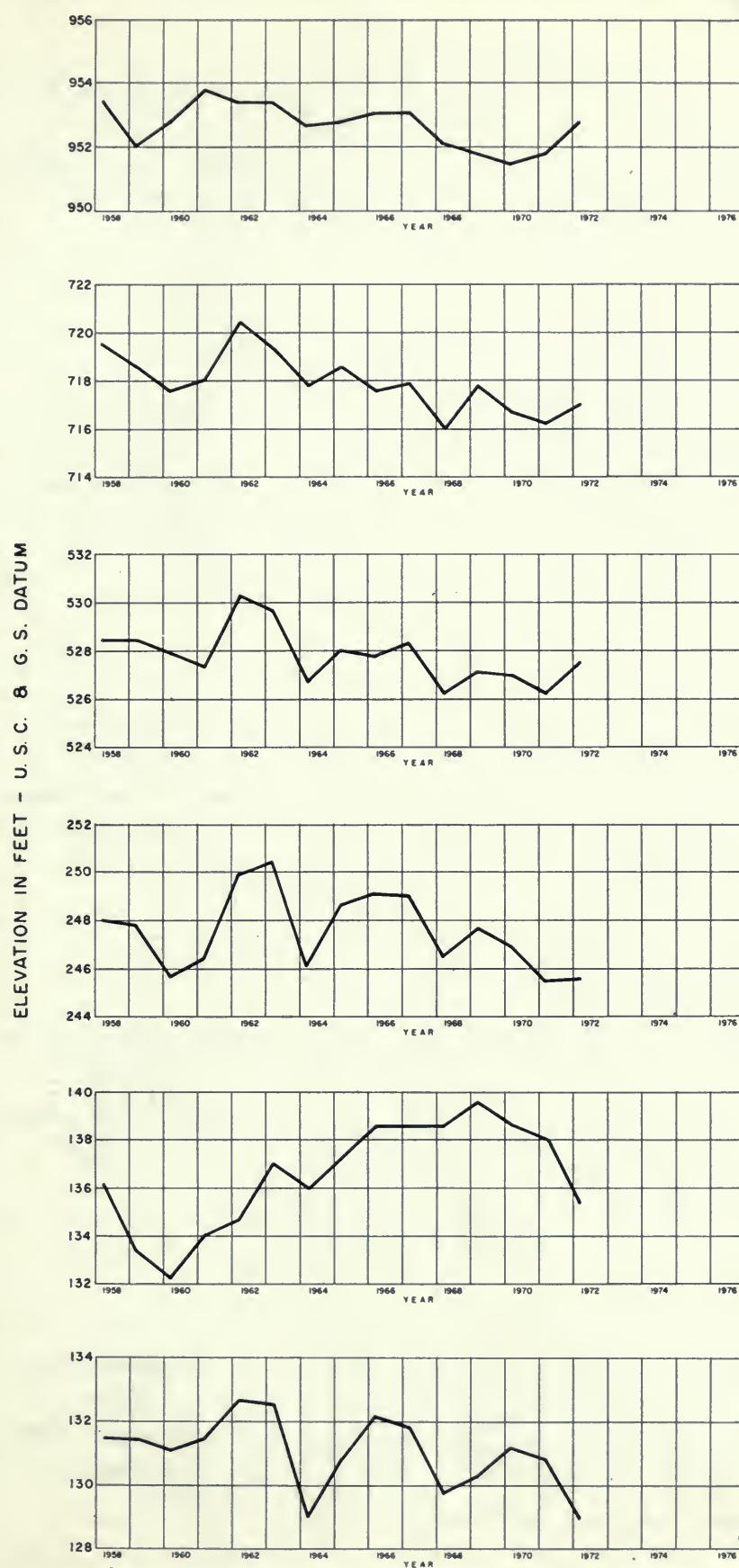
AVERAGE CHANGE OF GROUND WATER LEVELS
AND SUMMARY OF WELL MEASUREMENTS REPORTED

Ground Water Basin or Area		Average Change Spring 1971 to Spring 1972 in Feet	Measuring Agency	Number of Wells Reported		
				Monthly 1971-72	Fall 1971	Spring 1972
NORTH COASTAL REGION						
Potter Valley	1-14.00	+1.0	Department of Water Resources	2	2	
Ukiah Valley	1-15.00	+0.8	Department of Water Resources	2	2	
Sanel Valley	1-16.00	+1.3	Department of Water Resources	3	3	
Alexander Valley	1-17.00	+0.2	Department of Water Resources	6	6	
Santa Rosa Valley	1-18.00					
Santa Rosa Area	1-18.01	-2.7	Department of Water Resources	12	12	
Healdsburg Area	1-18.02	-1.9	U. S. Geological Survey	9	9	
SAN FRANCISCO BAY REGION						
Petaluma Valley	2-01.00	-4.7	Department of Water Resources	6	6	
Napa-Sonoma Valley	2-02.00					
Napa Valley	2-02.01	-1.9	Napa County Department of Water Resources	5	5	111
Sonoma Valley	2-02.02	-1.5	Department of Water Resources	5	5	
Suisun-Fairfield Valley	2-03.00	-1.8	Solano County Department of Water Resources	8	14	14
Pittsburg Plain	2-04.00	-0.4	Department of Water Resources	6	6	
Ygnacio Valley	2-06.00	-1.8	Department of Water Resources	5	5	
Santa Clara Valley	2-09.00					
East Bay Area	2-09.01	-3.0	Alameda County FC & WCD Alameda County Water District	3	6	6
South Bay Area	2-09.02	+2.5	Santa Clara Valley WCD	18		
Livermore Valley	2-10.00	+1.0	Alameda County FC & WCD	8	59	59
Half Moon Bay Terrace	2-22.00		Department of Water Resources			8
San Gregorio Valley	2-24.00		Department of Water Resources			5
Pescadero Valley	2-26.00		Department of Water Resources			7
CENTRAL COASTAL REGION						
Soquel Valley	3-01.00		Department of Water Resources			3
Pajaro Valley	3-02.00	-1.4*	Monterey County FC & WCD Department of Water Resources	2	5	5
Gilroy-Hollister Valley	3-03.00	-7.1		3	1	
South Santa Clara County	3-03.01	-11.9	Santa Clara Valley WCD Department of Water Resources	7	7	7
San Benito County	3-03.02	-6.3	San Benito County Department of Water Resources	5	2	5
Salinas Valley	3-04.00					
Pressure Area	3-04.01	-4.0*	Monterey County FC & WCD	3	3	
East Side Area	3-04.02	-3.2*	Monterey County FC & WCD		1	
Forebay Area	3-04.03	+8.3*				
Arroyo Seco Cone	3-04.04	+1.1*	Monterey County FC & WCD	2		
Upper Valley Area	3-04.05	-7.0*	Monterey County FC & WCD	2	2	
Paso Robles Basin	3-04.06	-6.6	San Luis Obispo FC & WCD	17	24	
Seaside Area	3-04.08	+3.1*				
Langley Area	3-04.09	+1.4*				
Corral de Tierra Area	3-04.10	-4.4*				
Carmel Valley	3-07.00	-2.3	Monterey County FC & WCD	4		
TOTAL				50	198	333

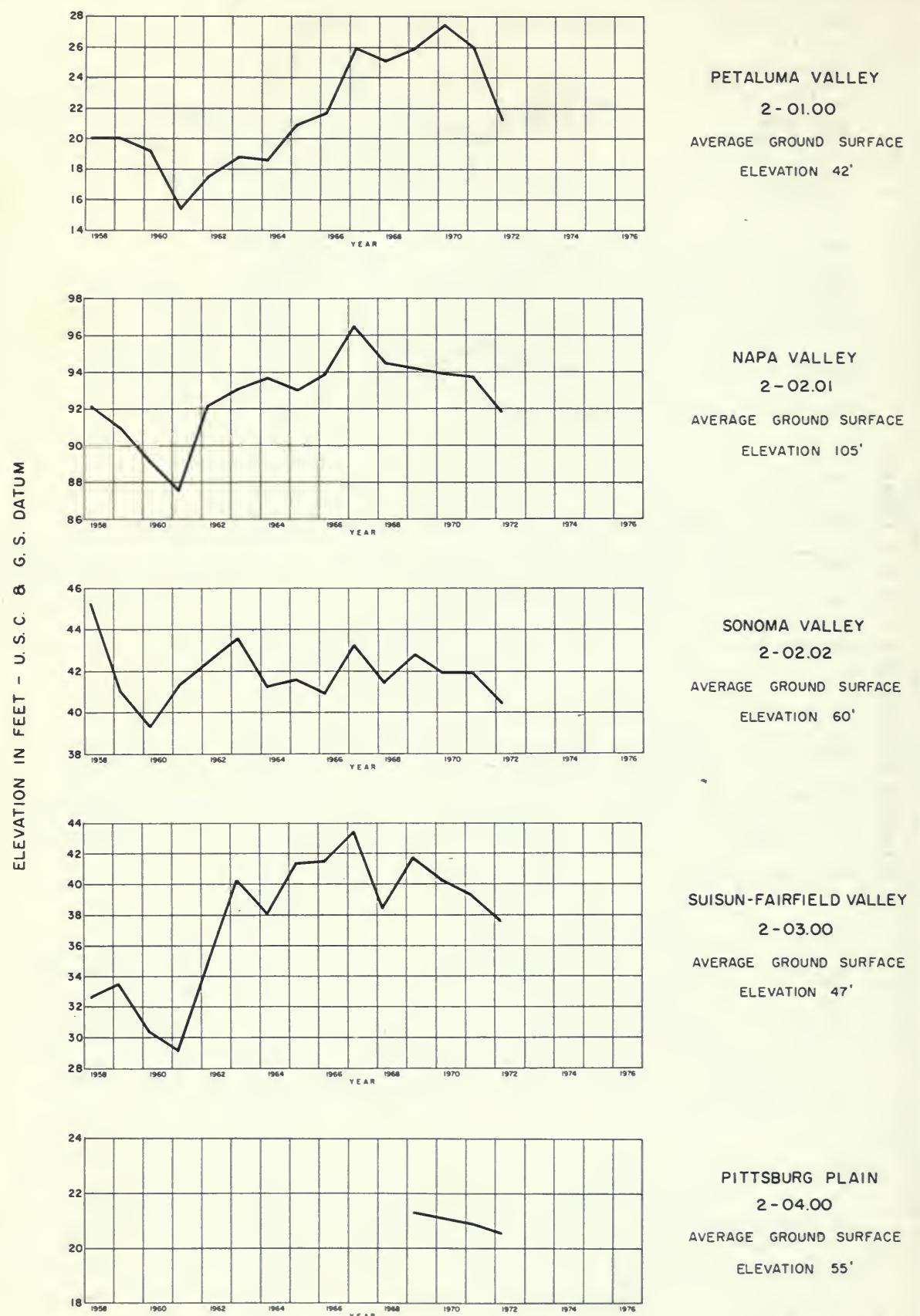
*Average change determined from water level measurements made during fall of 1970 and fall of 1971.

130-72

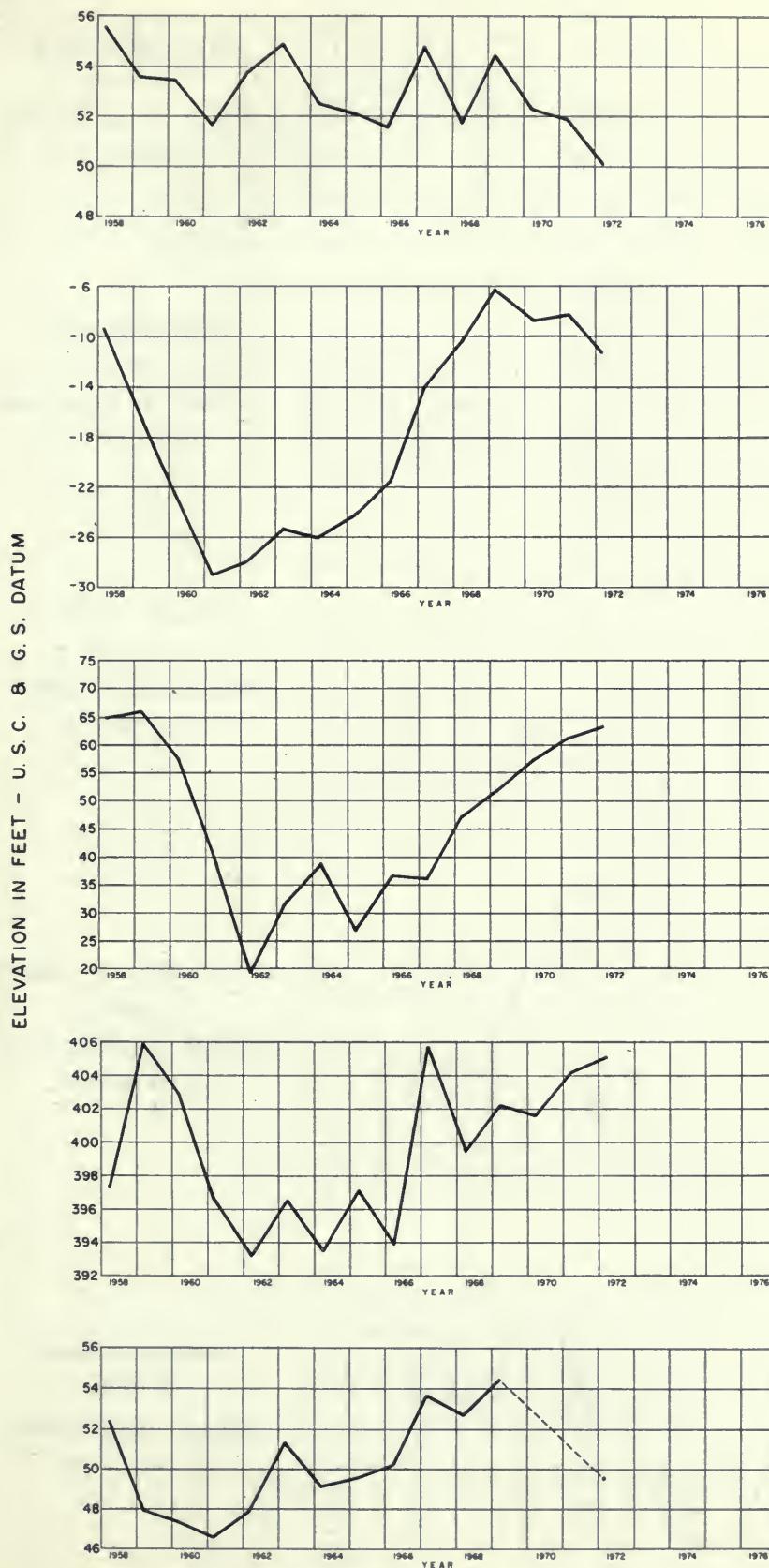
FIGURE C-2 SHEET 1 OF 4



FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS

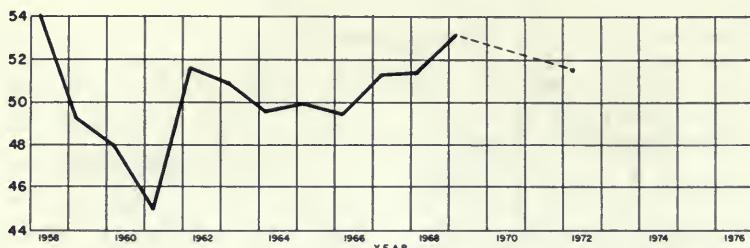


FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS

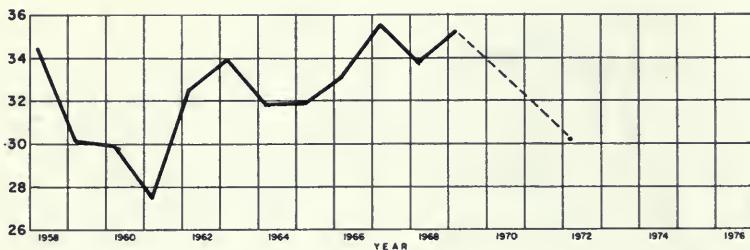


FLUCTUATION OF AVERAGE GROUND WATER LEVEL IN SELECTED AREAS

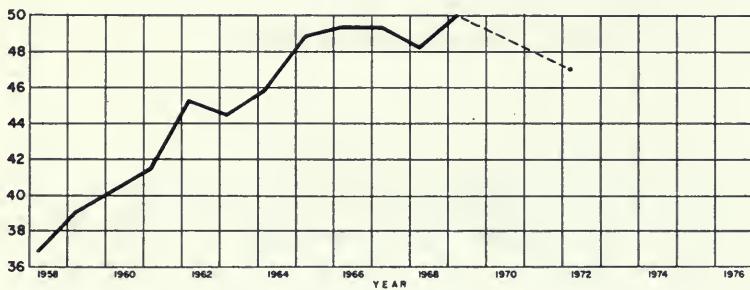
ELEVATION IN FEET - U.S.C. & G.S. DATUM



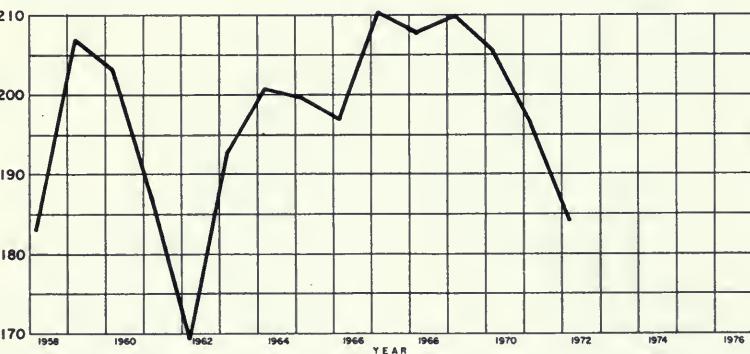
SAN GREGORIO VALLEY
2-24.00
AVERAGE GROUND SURFACE
ELEVATION 60'



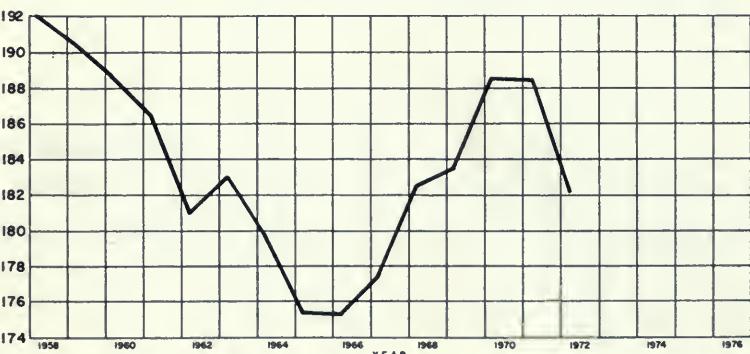
PESCADERO VALLEY
2-26.00
AVERAGE GROUND SURFACE
ELEVATION 40'



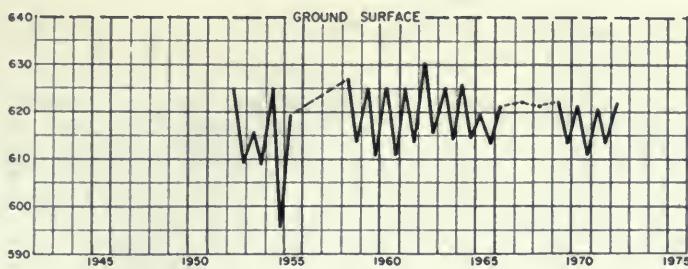
SOQUEL VALLEY
3-01.00
AVERAGE GROUND SURFACE
ELEVATION 110'



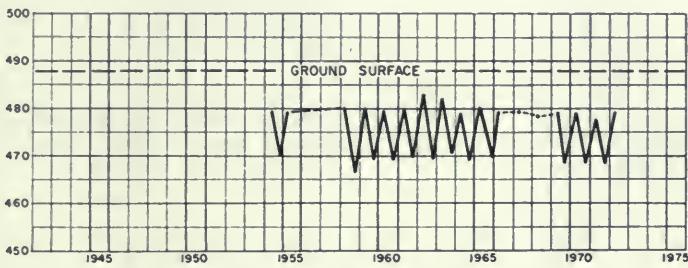
SOUTH SANTA CLARA COUNTY
3-03.01
AVERAGE GROUND SURFACE
ELEVATION 240'



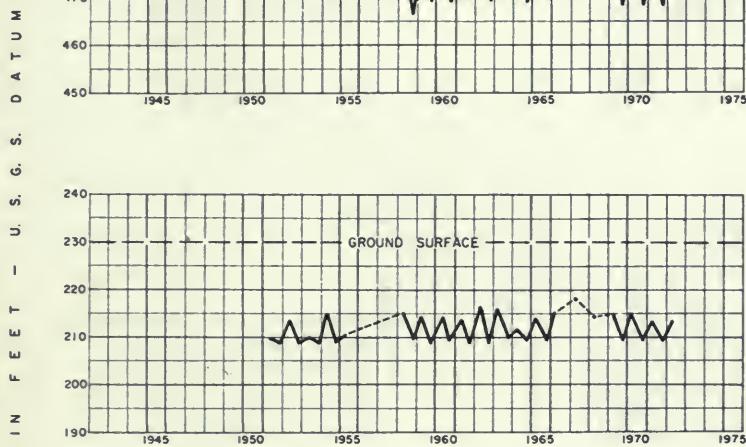
SAN BENITO COUNTY
3-03.02
AVERAGE GROUND SURFACE
ELEVATION 260'



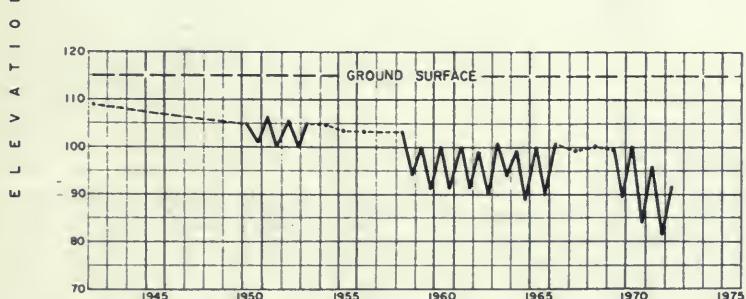
UKIAH VALLEY (I-15.00)
WELL NUMBER 15N/12W-8L1
GROUND SURFACE ELEVATION 640'



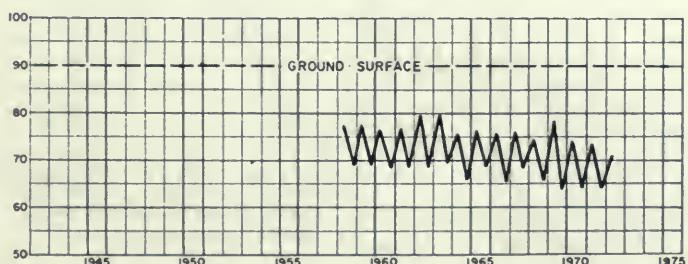
SANEL VALLEY (I-16.00)
WELL NUMBER 13N/11W - 19PI
GROUND SURFACE ELEVATION 488'



ALEXANDER VALLEY (I-17.00)
WELL NUMBER 10N/9W-18B1
GROUND SURFACE ELEVATION 230'

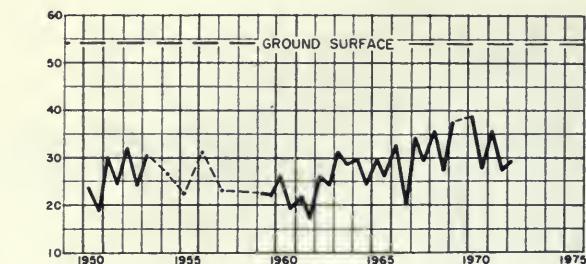


SANTA ROSA AREA (I-18.01)
WELL NUMBER 6N/8W-13R1
GROUND SURFACE ELEVATION 115'

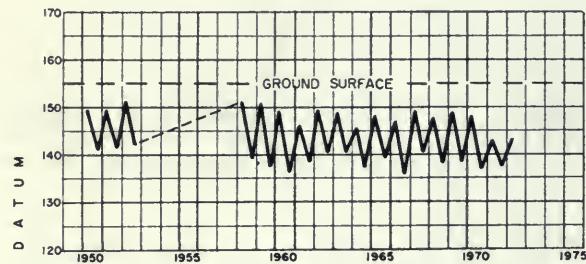


HEALDSBURG AREA (I-18.02)
WELL NUMBER 9N/9W - 28NI
GROUND SURFACE ELEVATION 90'

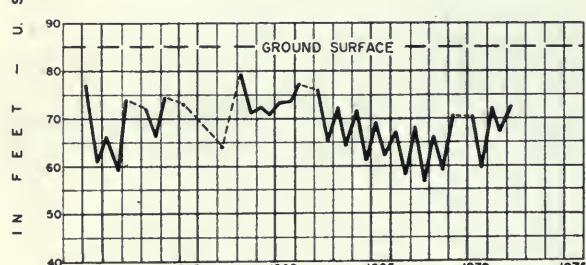
----- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE



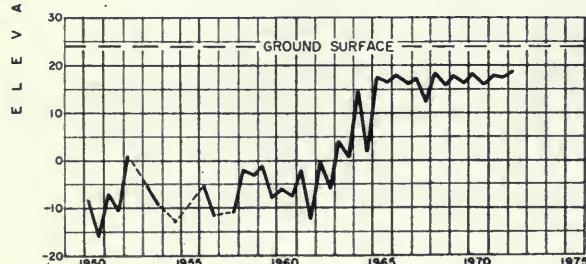
PETALUMA VALLEY (2-01.00)
WELL NUMBER 5N/7W-26RI
GROUND SURFACE ELEVATION 54'



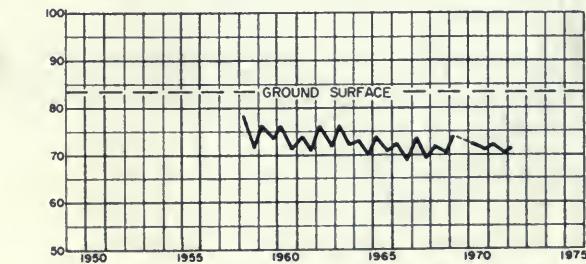
NAPA VALLEY (2-02.01)
WELL NUMBER 7N/5W - 902
GROUND SURFACE ELEVATION 155'



SONOMA VALLEY (2-02.02)
WELL NUMBER 5N/5W - 17C1
GROUND SURFACE ELEVATION 85'



SUISUN-FAIRFIELD VALLEY (2-03.00)
WELL NUMBER 5N/2W-27J2
GROUND SURFACE ELEVATION 24'

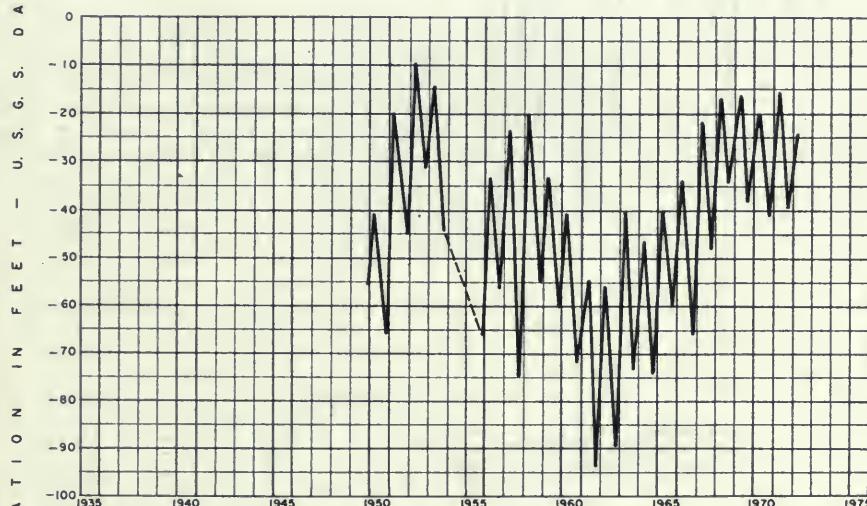
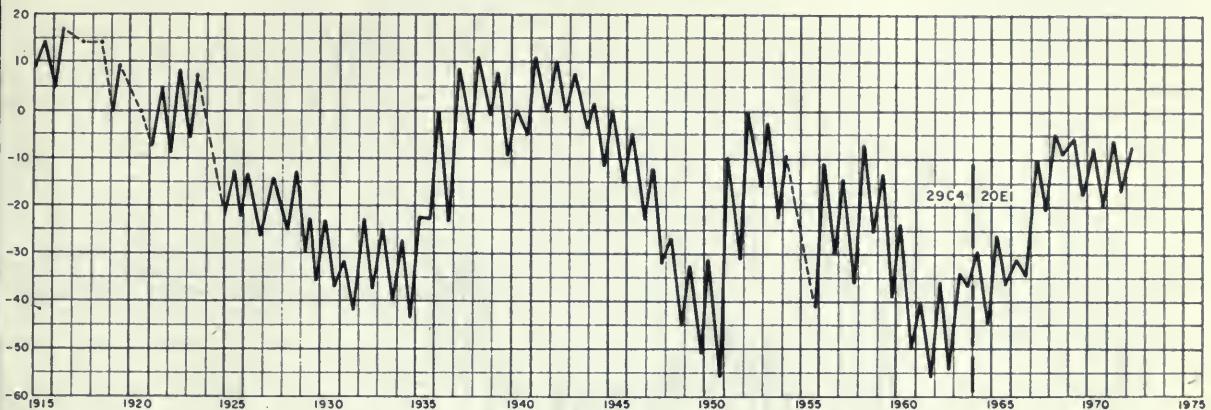


YGNACIO VALLEY (2-06.00)
WELL NUMBER 1N/1W - 7K1
GROUND SURFACE ELEVATION 83'

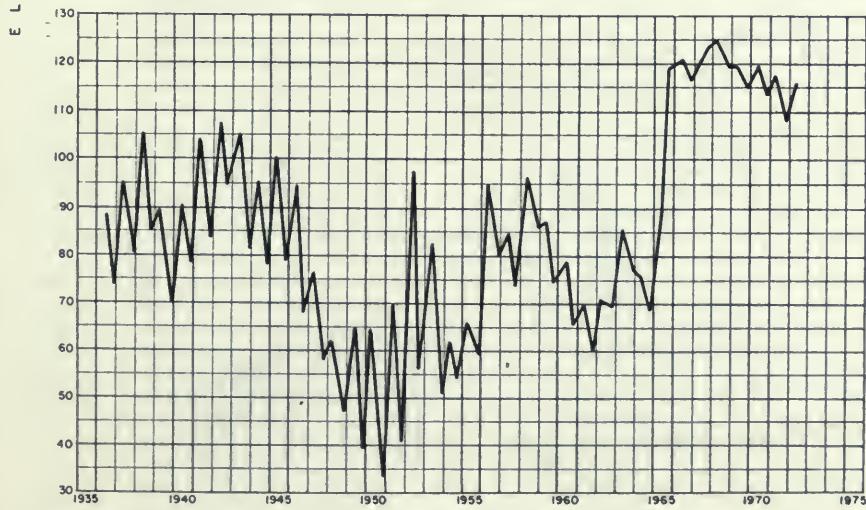
----- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

FLUCTUATION OF WATER LEVEL IN WELLS

SANTA CLARA VALLEY
 EAST BAY AREA - UPPER AQUIFER (2-09.01)
 WELL NUMBERS 4S/IW-29C4, 20E1
 GROUND SURFACE ELEVATION 55'

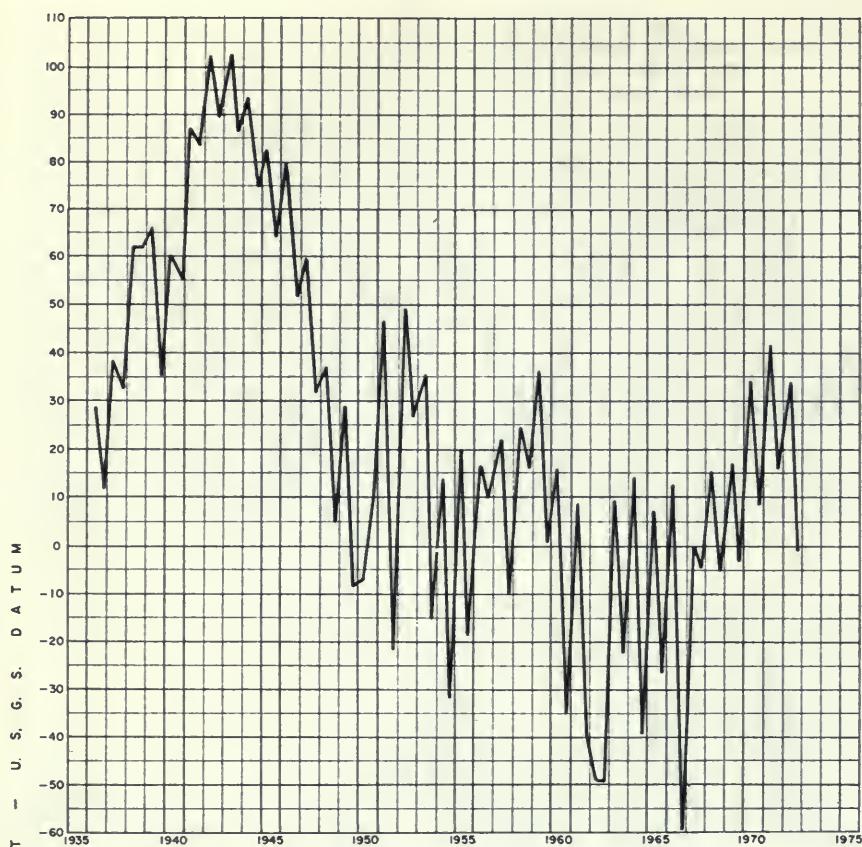


SANTA CLARA VALLEY
 EAST BAY AREA
 LOWER AQUIFER (2-09.01)
 WELL NUMBER 5S/IW-5F1
 GROUND SURFACE ELEVATION 36'



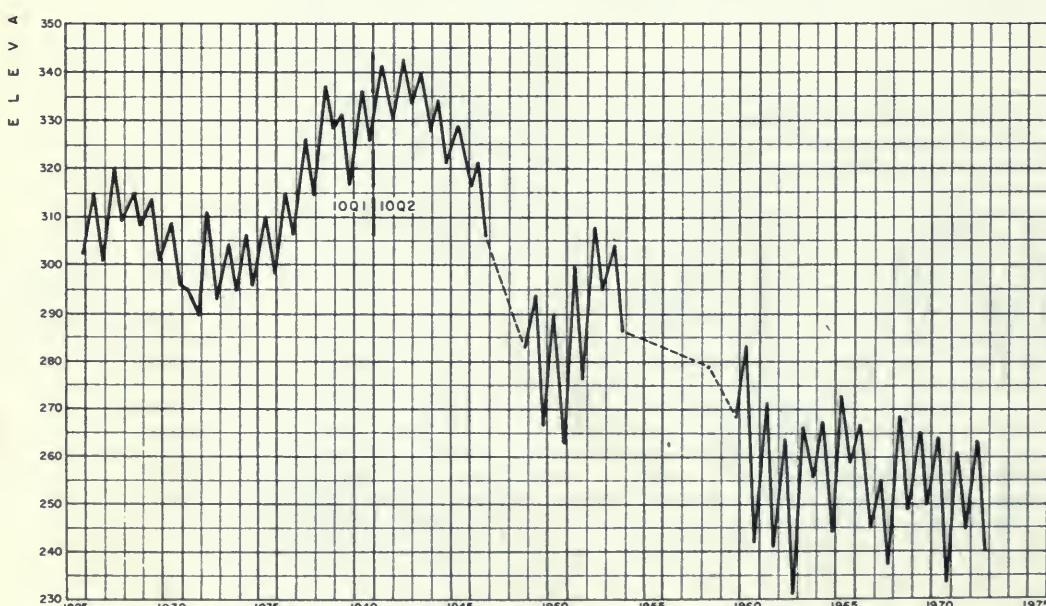
SANTA CLARA VALLEY
 SOUTH BAY AREA (2-09.02)
 WELL NUMBER 6S/IE-23P2
 GROUND SURFACE ELEVATION 240'

----- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

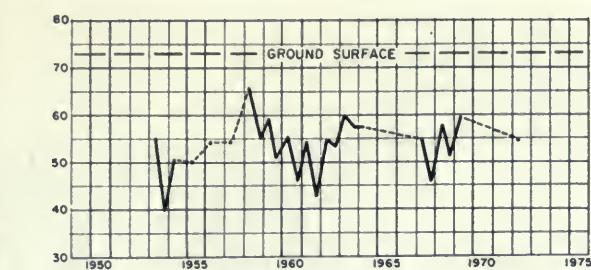


SANTA CLARA VALLEY
SOUTH BAY AREA (2-09.02)
WELL NUMBER 7S/IE-31A2
GROUND SURFACE ELEVATION 152'

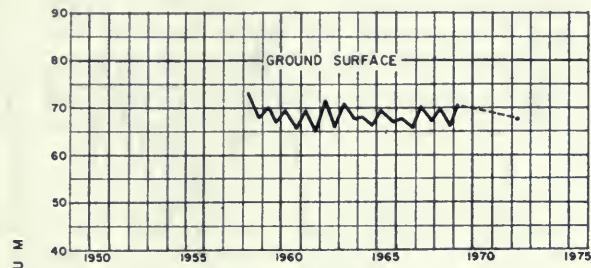
LIVERMORE VALLEY (2-10.00)
WELL NUMBERS 3S/IE-10Q1, 10Q2
GROUND SURFACE ELEVATION 369'



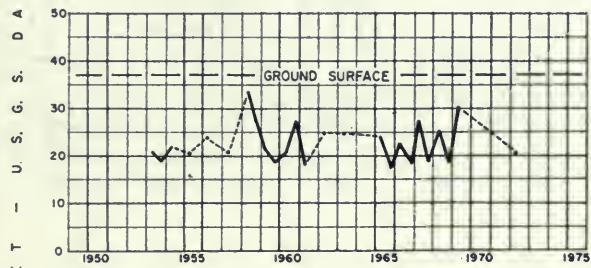
===== CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE



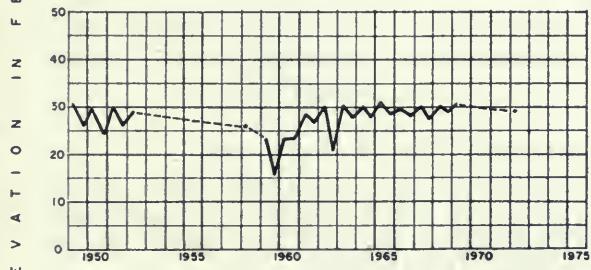
HALF MOON BAY TERRACE (2-22.00)
WELL NUMBER 5S/5W-20LI
GROUND SURFACE ELEVATION 73'



SAN GREGORIO VALLEY (2-24.00)
WELL NUMBER 7S/5W-14CI
GROUND SURFACE ELEVATION 80'

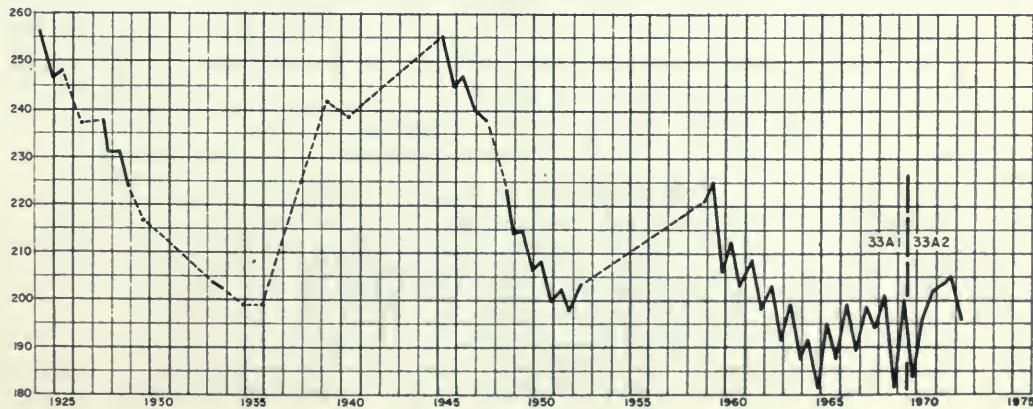


PESCADERO VALLEY (2-26.00)
WELL NUMBER 6S/5W-10KI
GROUND SURFACE ELEVATION 37'



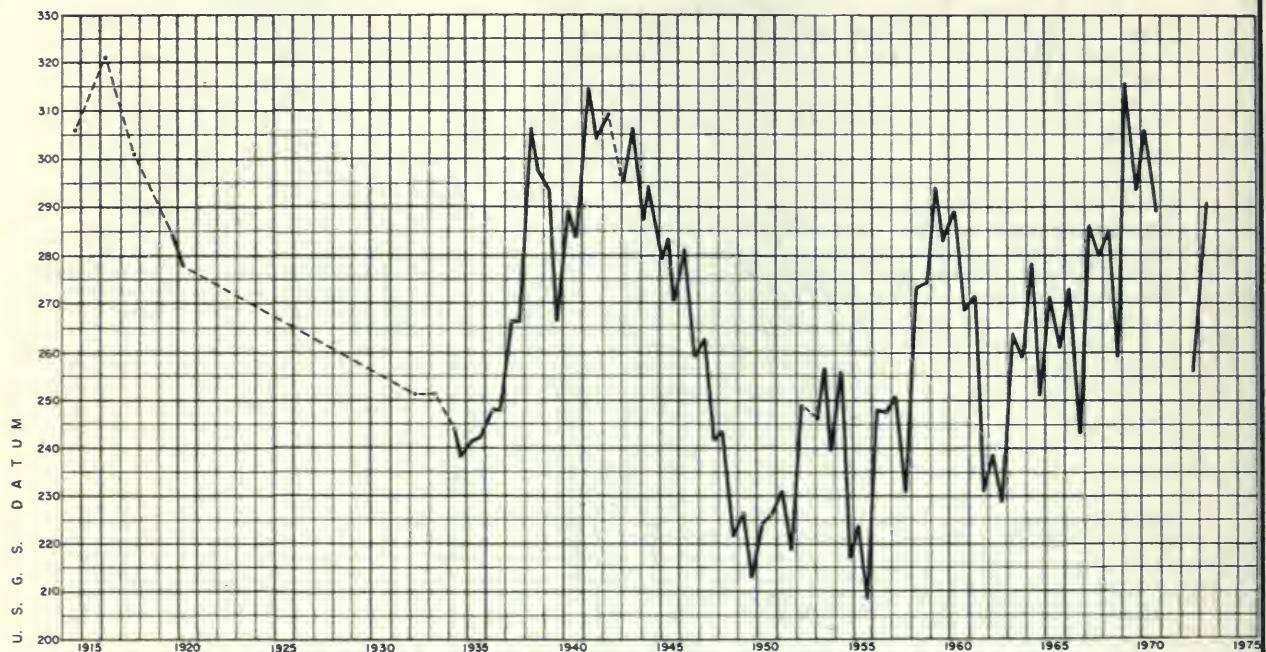
SOQUEL VALLEY (3-01.00)
WELL NUMBER 11S/1W-10CI
GROUND SURFACE ELEVATION 90'

GILROY - HOLLISTER VALLEY
SAN BENITO COUNTY (3-03.02)
WELL NUMBERS I2S/5E-33A1, 33A2
GROUND SURFACE ELEVATION 280'

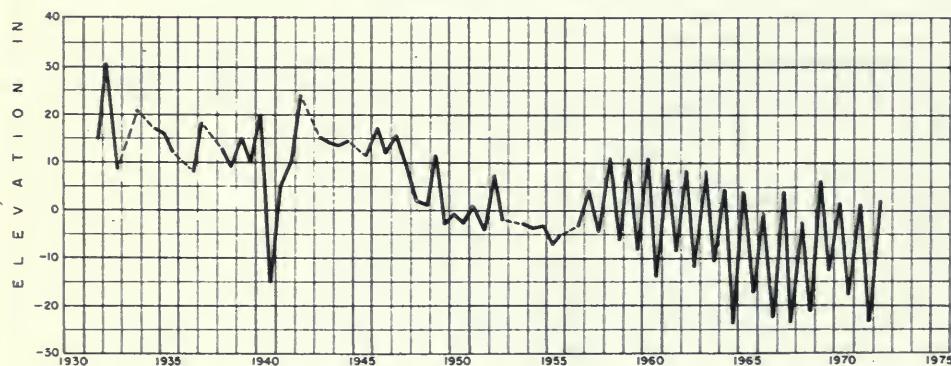


----- CONNECTS MEASUREMENTS MADE AT INTERVALS OF A YEAR OR MORE

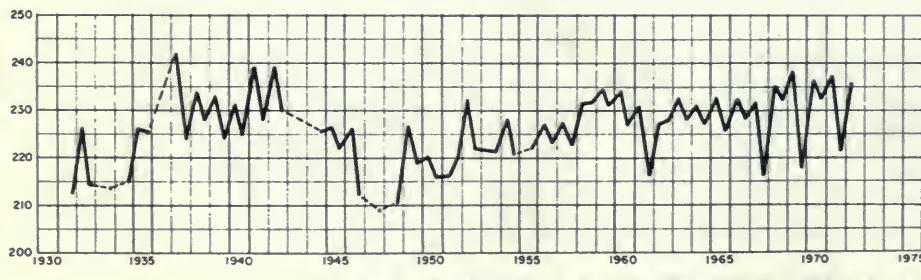
GILROY - HOLLISTER VALLEY
 SOUTH SANTA CLARA COUNTY (3-03.01)
 WELL NUMBER 9S/3E - 27C2 ,22PI
 GROUND SURFACE ELEVATION 347'354'



SALINAS VALLEY
 PRESSURE AREA - 400' AQUIFER (3-04.01)
 WELL NUMBER 14S/3E - 18J1
 GROUND SURFACE ELEVATION 69'



SALINAS VALLEY
 UPPER VALLEY AREA (3-04.05)
 WELL NUMBER 19S/7E - 10PI
 GROUND SURFACE ELEVATION 315'



Appendix D

SURFACE WATER QUALITY DATA

This appendix contains surface water quality data collected at stream and estuarine stations in the Central Coastal Area during the period from October 1, 1971, through September 30, 1972. Samples were collected by the Department of Water Resources, U. S. Bureau of Reclamation, U. S. Geological Survey, and Santa Cruz County Health Department.

The Department of Water Resources Laboratory used procedures from the latest edition of "Standard Methods for the Examination of Water and Wastewater" for the determination of mineral, nutrient, and biological constituents. Pesticides are determined in accordance with the "Guide to the Analysis of Pesticide Residues", U. S. Department of Health, Education and Welfare, 1965. Laboratory services for the U. S. Bureau of Reclamation are provided by the U. S. Air Force at McClellan Air Force Base. It uses procedures in accordance with the "FWPCA Methods for Chemical Analysis of Water and Wastes", November 1968, for all parameters.

Two numbering systems are used in this bulletin for identifying water quality stations. The first is for those stations for which the flow of water can be measured readily, as in streams and rivers. This system is described in Bulletin No. 157, "Index to Stream Gaging Stations In and Adjacent to California, 1970", Department of Water Resources.

The second numbering system is used for stations located in broad water bodies. This system is described as follows: The first two digits show the hydrographic unit as identified in the introduction to Appendix A. The third digit identifies the type of water body and, for this publication, is a "B" for Bay system; "L" for lake; "0" for Pacific Ocean; "R" for reservoir; and "S" for slough. The next digit is the last digit of the latitude in degrees, "3" for 33°, or "9" for 29°. The last three digits are the minutes of latitude to the tenth of a minute. The last four digits are the longitude in the same manner as latitude. A fifth digit indicates a sequence number when two stations have the same 8-digit latitude and longitude numbers.

Example: E0 B 802.3 207.1 2

E0	San Francisco Bay
B	Water Body -- Bay
8	38° Latitude
02.3	02.3' Latitude
2	122° Longitude
07.1	07.1' Longitude
2	Second Station

SAMPLING STATION DATA AND INDEX

Station	Station Number	Location		Beginning of Record	Data on pages indicated						
		Latitude ° ' "	Longitude ° ' "		Table Number						
		D-2	D-3	D-4	D-5	D-6	D-7	D-8	D-9	D-10	
APTOS CREEK BELOW VALENCIA CREEK	DO 2020.00	36 58 26	121 54 10	March 1970	39	55	61	68			
BIG RIVER NEAR MENDOCINO	F8 2720.00	39 18 48	123 42 12	Jan. 1959	52						
BLANCO DRAIN AT PUMP LIFT	D2 1030.30	36 39 42	121 37 18	May 1970	40	55	59	61	68	76	85
BRANCIFORTE CREEK AT SANTA CRUZ	DO 1100.00	36 59 10	122 00 47	March 1970	39		61	68			
CHADBOURNE SLOUCH AT CHADBOURNE ROAD	EO S 811.0 204.8	38 10 57	122 04 50	Jan. 1967	49		65	72			
CORDELIA SLOUCH AT CYGNUS	EO S 809.2 205.3	38 09 10	122 05 19	Jan. 1967	48		65	72			
CORDELIA SLOUCH AT UPPER END	EO S 811.5 207.2	38 11 27	122 07 09	Sept. 1967	50		66	73			
EL TORO CREEK NEAR SAN BENANCIO BRIDGE	D2 1185.20	36 34 42	121 43 12	March 1970	40	56					
*ELKHORN SLOUCH AT BLOMM ROAD	D1 3220.20	36 51 36	121 40 18	March 1970							75
GREEN VALLEY CREEK AT CORDELIA	E3 2100.51	38 12 42	122 07 47	Dec. 1968	51		66	73			
GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUCH	EO B 807.0 202.3	38 07 02	122 02 19	Jan. 1968	47	56	65	72			
HILL SLOUCH AT GRIZZLY ISLAND ROAD	EO S 813.6 201.2	38 13 34	122 01 14	Jan. 1967	50		66	73			
HONKER BAY NEAR WHEELER POINT	EO B 804.4 156.2	38 04 26	121 56 12	Jan. 1968	47		64	71			
LAKE MERRITT AT BOATHOUSE DOCK	E4 L 748.1 215.6	37 48 08	122 15 35	March 1972	52		73	79			
**MERRITT LAKE DRAIN AT PUMP	D2 1006.60	36 45 06	121 44 12	Aug. 1970	40	55		76			83
MONTEZUMA SLOUCH AT GRIZZLY ISLAND ROAD	EO S 811.2 158.5	38 11 14	121 58 32	Feb. 1967	50		66	73			
NAPA RIVER NEAR NAPA	E3 1250.00	38 22 06	122 18 08	Nov. 1929	51						
NAVARRO RIVER NEAR NAVARRO	F8 2100.00	39 10 15	123 39 55	Jan. 1959	52						79
NOYO RIVER NEAR FORT BRAGG	F8 3100.00	39 25 55	123 44 10	Jan. 1951	52	57	73	79			
OLD SALINAS RIVER ABOVE TEMBLADERO SLOUCH	D2 1006.50	36 46 12	121 47 12		40	55	59	61	68	75	
PAJARO RIVER AT CHITTENDEN	D1 1250.00	36 54 00	121 35 54	Dec. 1951	39						82
PAJARO RIVER AT THURWACHTER ROAD	D1 1075.30	36 52 48	121 47 30	May 1970	39	55	59	61	68	75	
RECTOR RESERVOIR NEAR INTAKE TOWER	E3 R 826.5 220.5	38 26 30	122 20 30		51						
RUSSIAN RIVER NEAR GUERNVILLE	F9 1100.00	38 30 00	122 56 05	Nov. 1969	52						87
SACRAMENTO RIVER AT CHIPPS ISLAND	EO B 802.8 155.0	38 02 47	121 55 02	Jan. 1968	43	56	63	70			
SALINAS RECLAMATION CANAL AT AIRPORT WAY	D2 1020.70	36 39 42	121 37 18	May 1970	40	55	59	61	68	76	
SALINAS RECLAMATION CANAL BELOW ALISAL SLOUCH	D2 1009.20	36 44 30	121 44 18	Sept. 1970	40	55					84
SALINAS RECLAMATION CANAL AT ALISAL S.T.P.	D2 1016.50	36 40 06	121 38 06	May 1969							
SALINAS RIVER AT BLANCO DRAIN	D2 1120.50	36 42 24	121 44 48	Nov. 1971	55	59	61	69	77		
SALINAS RIVER AT BLANCO ROAD	D2 1150.30	36 40 42	121 44 42	May 1970	40	55	59	61	69	77	
SALINAS RIVER AT DAVIS ROAD	D2 1160.20	36 38 30	121 42 00	Nov. 1971	40	56	59	61	69	77	
SALINAS RIVER NEAR GONZALES	D2 1325.10	36 29 12	121 28 06	May 1969	40	56	59	62	69	77	80
SALINAS RIVER AT TWIN BRIDGES	D2 1110.50	36 44 00	121 46 42	May 1971	40	55	59	61	68	77	
SALINAS RIVER 1.9 MILES ABOVE HIGHWAY 1 BRIDGE	D2 1110.70	36 43 06	121 45 00	Nov. 1971	55	59	61	69	77		
SALSIPUEDES CREEK AT RIVERSIDE ROAD	D1 1110.20	36 54 36	121 44 42	Aug. 1972	39	55					75
SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	EO B 736.2 212.0	37 36 10	122 12 00	June 1971	41		62	69	78		89
SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	EO B 735.0 215.0	37 35 01	122 14 59	Sept. 1969	41		62	69	78		89
SAN FRANCISCO BAY AT TREASURE ISLAND	EO B 749.2 222.4	37 49 15	122 22 26	July 1965	42		62	69	78		89
SAN LORENZO RIVER AT BOULDER CREEK	DO 1498.01	37 06 47	122 06 40	March 1970	39		61	68			
SAN LORENZO RIVER AT PARADISE PARK	DO 1180.01	37 00 37	122 02 34	Sept. 1969	39		61	68			81
SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER	EO B 805.3 226.3	38 05 20	122 26 20	March 1971	47		65	72			
SAN PABLO BAY NEAR PINOLE POINT	EO B 801.8 222.3	38 01 50	122 22 15	March 1971	42	56	63	70			
SAN PABLO BAY NEAR RODEO	EO B 803.5 217.0	38 03 30	122 17 00	March 1971	46		64	71			
SCOTT CREEK AT HIGHWAY 1	DO 4010.01	37 02 26	122 13 39	March 1970	39		61	68			
SOQUEL CREEK AT SOQUEL	DO 3100.00	36 59 29	121 57 17	Dec. 1951	39		61	68			
SUISUN BAY ABOVE AVON PIER	EO B 803.2 204.8	38 03 13	122 04 48	Sept. 1969	44						
SUISUN BAY OFF BULLS HEAD POINT	EO B 802.3 207.1	38 02 20	122 07 06	Feb. 1968	42		63	70			
SUISUN BAY OFF MIDDLE POINT	EO B 803.6 159.3	38 03 36	121 59 20	Jan. 1968	46						
SUISUN BAY NEAR PORT CHICAGO	EO B 803.5 201.4	38 03 30	122 01 25		44		63	71			
SUISUN BAY NEAR PRESTON POINT	EO B 804.0 203.0	38 03 58	122 03 00	Sept. 1968	46		69				
SUISUN BAY AT VOLANTI SLOUCH ON JOICE ISLAND	EO S 810.8 202.8	38 10 50	122 02 45	Sept. 1968	49		65	72			
TEMBLADERO SLOUCH AT MOLERA BRIDGE	D2 1006.30	36 46 18	121 47 12	May 1970	40	55	59	61	68	75	
WATSONVILLE SLOUCH NEAR MOUTH AT SHELL ROAD	DI 1003.20	36 52 18	121 49 00	Aug. 1972	39	55					75
ZAYANTE CREEK AT FELTON	DO 1220.01	37 02 53	122 04 00	March 1970	39		61	68			

* Previously reported as Elkhorn Slough at Bridge near Hall

** Previously reported as Tembladero Slough at Merritt Lake Drain

HYDROGRAPHIC AREA DESIGNATIONS IN THE CENTRAL COASTAL AREA

Central Coastal Area

San Francisco Bay Area

North Coastal Area

D0 Santa Cruz
 D1 Pajaro-San Benito Rivers
 D2 Lower Salinas River
 D3 Upper Salinas River
 D4 Monterey Coast

EO San Francisco Bay
 E1 Coast-Marin
 E2 Marin-Sonoma
 E3 Napa-Solano
 E4 East Bay
 E5 Alameda Creek
 E6 Santa Clara Valley
 E7 Bayside-San Mateo
 E8 Coast-San Mateo

F8 Mendocino Coast
 F9 Russian River

LEGEND

B 736.2 211.6 ● SURFACE WATER QUALITY SAMPLING STATION

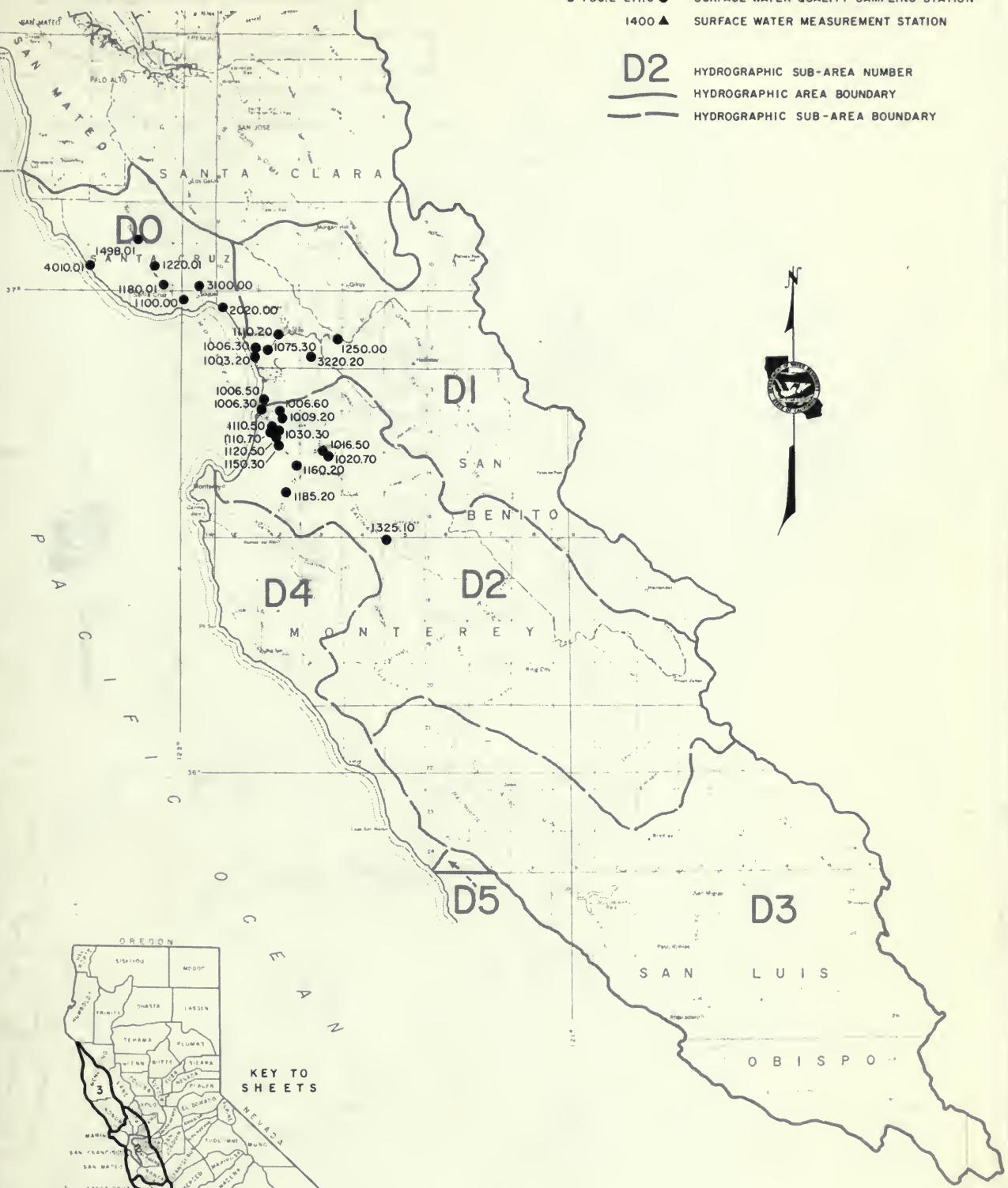
1400 ▲ SURFACE WATER MEASUREMENT STATION

D2

HYDROGRAPHIC SUB-AREA NUMBER

HYDROGRAPHIC AREA BOUNDARY

HYDROGRAPHIC SUB-AREA BOUNDARY



SURFACE WATER OBSERVATION STATIONS 1971 -72

FIGURE D-I SHEET 2 OF 3

LEGEND

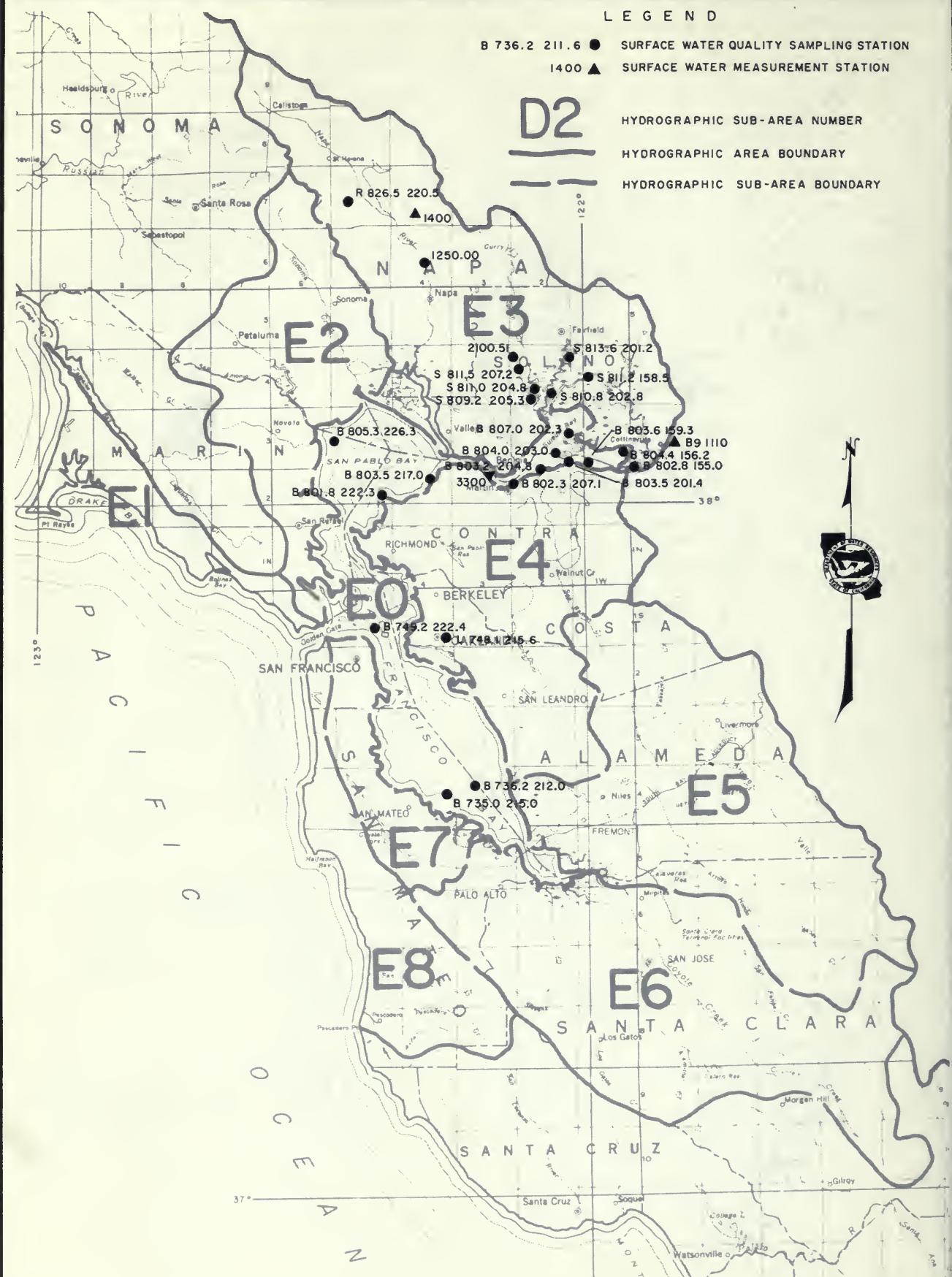
B 736.2 211.6 ● SURFACE WATER QUALITY SAMPLING STATION
1400 ▲ SURFACE WATER MEASUREMENT STATION

D2

HYDROGRAPHIC SUB-AREA NUMBER

HYDROGRAPHIC AREA BOUNDARY

HYDROGRAPHIC SUB-AREA BOUNDARY



SURFACE WATER OBSERVATION STATIONS 1971 -72

LEGEND

8 736.2 211.6 ● SURFACE WATER QUALITY SAMPLING STATION
1400 ▲ SURFACE WATER MEASUREMENT STATION

D2

HYDROGRAPHIC SUB-AREA NUMBER

HYDROGRAPHIC AREA BOUNDARY

HYDROGRAPHIC SUB-AREA BOUNDARY



SURFACE WATER OBSERVATION STATIONS 1971 - 72

TABLE D-2
MINERAL ANALYSES OF SURFACE WATER

Lab and Sampler Agency Codes

- 5001 - U. S. Bureau of Reclamation
- 5006 - McClellan Air Force Base Laboratory
- 5050 - Department of Water Resources
- 5063 - Santa Cruz County Health Department

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
- G.H. - Instantaneous gage height in feet above an established datum
- Q - Instantaneous discharge in cubic feet per second
- DEPTH - Depth in feet at which sample was collected
- DO - Dissolved oxygen content in milligrams per liter
- SAT - Percent of normal dissolved oxygen saturation
- TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
- PH - Measure of acidity (<7) or alkalinity (>7) of water
- EC - Electrical conductance in micromhos at 25° C
- TDS - Gravimetric determination of total dissolved solids at 180° C
- SUM - Total dissolved solids by summation of analyzed constituents
- TH - Total hardness
- NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity
- TURB - Jackson Turbidity Units measured with a Hellege Turbidimeter (E) or a Hack Nephelometer (A)
- SAR - Sodium adsorption ratio

PERCENT REACTANCE VALUE is determined by dividing the sum of the cations or anions in milliequivalents per liter into each constituent in milliequivalents per liter, arriving at a percentage. For a partial analysis, an approximate value is determined by multiplying the electrical conductance by 0.01 and using that as the cation or anion sum

Mineral Constituents

- | | | | |
|------|---------------|------|-------------|
| B | - Boron | K | - Potassium |
| CA | - Calcium | MG | - Magnesium |
| CL | - Chloride | NA | - Sodium |
| C03 | - Carbonate | N03 | - Nitrate |
| F | - Fluoride | SI02 | - Silica |
| HC03 | - Bicarbonate | S04 | - Sulfate |

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP PH EC	FIELD LABORATORY	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER			MILLIEQUIVALENTS PER LITER			MILLIGRAMS PER LITER			
							PERCENT	REACTANCE	VALUE	B SI02	F SUM	TDS NCH	TH NCH	TURB SAH		
DO 1100.00																
03/21/72 1200	5063 5050	11.0 102	54 12	F C	7.5 8.1	450 475 2.00 40	40 1.48 1.48 30	18 1.48 1.48 30	34 -- -- 30	-- .00 2.79 74	-- 33 .93 25	2.4 .04 1	-- -- --	296 174 35	174 2A 1.1	
09/11/72 1030	5063 5050	9.5 104	68 20	F C	7.3 7.5	310 344 1.40 41	28 1.40 .72 21	8.8 1.31 1.31 38	30 -- -- 70	-- .00 1.90 30	-- 29 .82 30	.6 .01	-- -- --	206 107 11	107 19A 1.3	
00 1180.01																
03/21/72 1445	5063 5050	11.5/ 114	59 15	F C	7.8 8.3	390 385 2.15 58	43 1.49 1.04 13	6.0 1.49 1.04 28	24 -- -- 76	0 .00 2.28 76	-- 25 .71 24	.8 .01	-- -- --	230 132 18	132 1A 0.9	
09/11/72 1200	5063 5050	8.0 89	70 21	F C	8.0 7.8	400 365 2.05 55	41 .66 1.00 18	8.0 .66 1.00 27	23 -- -- 76	0 .00 2.26 76	-- 26 .73 24	.0 .00	-- -- --	216 135 23	135 3A 0.9	
DO 1220.01																
03/21/72 1410	5063 5050	10.5 103	58 14	F C	7.8 8.2	420 425 2.35 55	47 .79 1.17 18	9.6 1.79 1.17 27	27 -- -- 73	0 .00 2.33 73	-- 29 .82 26	1.9 .03 1	-- -- --	263 157 41	157 2A 0.9	
09/11/72 1300	5063 5050	9.5 96	60 16	F C	8.0 7.8	470 405 2.30 57	46 .63 1.13 16	7.6 1.63 1.13 28	26 -- -- 73	0 .00 2.25 73	-- 29 .82 26	1.8 .03 1	-- -- --	257 146 34	146 2A 0.9	
DO 1498.01																
03/21/72 1010	5063 5050	10.0 92	52 11	F C	7.5 8.0	480 458 2.45 53	49 .89 1.31 19	10 1.31 1.31 28	30 -- -- 75	0 .00 2.61 75	-- 31 .87 25	.7 .01	-- -- --	268 167 37	167 1A 1.0	
09/11/72 1500	5063 5050	8.5 86	60 16	F C	7.8 7.7	515 495 2.30 47	46 .99 1.65 20	12 1.65 1.65 33	38 -- -- 67	0 .00 2.90 67	-- 51 1.44 33	.7 .01	-- -- --	275 166 20	166 2A 1.3	
DO 2020.00																
03/21/72 1330	5063 5050	10.5 100	56 13	F C	8.0 8.3	760 749 3.24 39	65 2.67 2.35 32	32 2.67 2.35 28	54 1.17 1.17 27	-- 0 .00 75	-- 53 1.49 25	.2 .00	-- -- --	447 296 75	296 3A 1.4	
09/11/72 1130	5063 5050	10.0 102	62 17	F C	8.2 7.8	910 948 3.59 36	72 3.04 3.39 30	37 3.04 3.39 34	78 1.65 1.65 23	-- 0 .00 68	-- 90 2.54 31	.5 .01	-- -- --	564 334 56	334 1A 1.9	
DO 3100.00																
03/21/72 1300	5063 5050	10.0 102	62 17	F C	7.8 8.3	780 783 3.99 48	80 2.02 2.31 24	24 2.02 2.31 28	53 1.17 1.17 28	-- 0 .00 69	-- 64 1.80 31	.0 .00	-- -- --	458 301 98	301 1A 1.3	
09/11/72 1100	5063 5050	2.50 112	10.5 19	F C	7.8 8.0	700 718 3.74 49	75 2.06 1.78 27	25 1.78 1.78 23	41 1.78 1.78 23	-- 0 .00 73	-- 52 1.47 27	.1 .00	-- -- --	459 290 92	290 15A 1.0	
DO 4010.01																
03/21/72 0905	5063 5050	9.5 88	54 12	F C	7.1 7.6	405 397 1.10 30	22 1.10 1.78 20	9.0 1.78 1.78 49	41 1.78 1.78 49	-- 0 .00 45	-- 247 4.05 45	-- 61 1.72 55	.1 .00	-- -- --	218 92 23	92 1A 1.9
09/11/72 0930	5063 5050	7.0 73	64 18	F C	7.9 7.8	4000 4350 1.10 3	22 4.36 34.45 11	53 3.45 3.45 86	792 3.64 3.64 10	-- 0 .00 90	-- 222 34.12 90	.1 .00	-- -- --	2380 276 91	276 10A 20.9	
D1 1003.20																
08/23/72 1115	5050 5050	4.7 55	74 23	F C	8.2 8.2	5600 5900	-- --	-- --	-- --	-- --	-- --	5.1 .08	.70	--	--	
D1 1075.30																
04/25/72 1515	5050 5050	31.7 343	67 19	F C	8.5 8.4	8000 8430	-- --	-- --	-- --	-- --	-- --	-- --	1.00	--	--	
05/23/72 1250	5050 5050	6.6 71	67 19	F C	8.7 8.7	6000 6040	-- --	-- --	-- --	-- --	-- --	-- --	1.00	--	--	
08/23/72 1045	5050 5050	0.0 27	80 C	F C	8.5 8.0	13500 10700	-- --	-- --	-- --	-- --	-- --	-- .00	1.10	--	--	
D1 1110.20																
08/23/72 1225	5050 5050	20.2 254	82 28	F C	8.4 8.4	900 881	-- --	-- --	-- --	-- --	-- --	-- .00	.30	--	--	
D1 1250.00																
08/23/72 1305	5050 5050	6.1 70	72 22	F C	8.2 8.2	2200 2570	-- --	-- --	-- --	-- --	-- --	-- .01	1.60	--	--	

TABLE D-2 (CONTINUED)
 MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HC ₀₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER			
							PERCENT	REACTANCE	VALUE	8	F	TDS SUM	TH NCH	TURB SAR				
D2 1006.30 TEMBLADERO SLOUGH AT MOLERA ROAD																		
04/25/72 1415	5050 5050		4.3 46	66 19	F C	7.9 1530	--	--	--	--	--	--	--	--	.20	--	--	
05/23/72 1145	5050 5050		2.4 23	56 13	F C	8.8 3510	--	--	--	--	--	--	--	--	.80	--	--	
08/23/72 0920	5050 5050		3.2 36	70 21	F C	8.4 3080	--	--	--	--	--	--	--	.05	.70	--	--	
D2 1006.50 OLD SALINAS RIVER ABOVE TEMBLADERO SLOUGH																		
04/25/72 1430	5050 5050		15.3 174	72 22	F C	8.5 2090	--	--	--	--	--	--	--	--	.50	--	--	
05/23/72 1215	5050 5050		7.6 77	61 16	F C	8.9 3390	--	--	--	--	--	--	--	--	1.00	--	--	
08/23/72 1000	5050 5050		6.5 73	70 21	F C	8.7 2990	--	--	--	--	--	--	--	.01	.80	--	--	
D2 1006.60 MERRITT LAKE DRAIN AT PUMP																		
08/23/72 0850	5050 5050		2.9 .0	67 31	F C	8.4 3020	--	--	--	--	--	--	--	.5 .01	.60	--	--	
D2 1009.20 SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH																		
08/23/72 0800	5050 5050		0.8 9	66 19	F C	7.7 2140	--	--	--	--	--	--	--	100 1.61	.20	--	--	
D2 1020.70 SALINAS RECLAMATION CANAL AT AIRPORT WAY																		
04/25/72 0850	5050 5050		11.3 110	58 14	F C	8.2 696	--	--	--	--	--	--	--	--	.10	--	--	
05/23/72 0722	5050 5050		8.1 77	56 13	F C	8.5 1060	--	--	--	--	--	--	--	--	.10	--	--	
08/22/72 0740	5050 5050		7.4 79	66 19	F C	8.2 794	--	--	--	--	--	--	--	17.0 .27	.20	--	--	
D2 1030.30 BLANCO DRAIN AT PUMP LIFT																		
04/25/72 1345	5050 5050		13.3 156	75 24	F C	8.3 3220	--	--	--	--	--	--	--	--	1.20	--	--	
05/23/72 0930	5050 5050		7.8 73	55 13	F C	8.0 1840	--	--	--	--	--	--	--	--	.60	--	--	
08/22/72 1225	5050 5050		12.4 152	79 26	F C	8.9 2620	--	--	--	--	--	--	--	40.0 .65	1.10	--	--	
D2 1110.50 SALINAS RIVER AT TWIN BRIDGES																		
04/25/72 1015	5050 5050		12.0 118	59 15	F C	8.4 1500	--	--	--	--	--	--	--	--	.50	--	--	
05/23/72 1000	5050 5050		17.6 189	66 19	F C	9.0 1910	--	--	--	--	--	--	--	--	.70	--	--	
08/22/72 1300	5050 5050		9.6 113	75 24	F C	9.0 1980	--	--	--	--	--	--	--	2.8 .05	.80	--	--	
D2 1150.30 SALINAS RIVER AT BLANCO ROAD																		
08/22/72 1200	5050 5050		8.5 103	78 26	F C	7.6 1780	--	--	--	--	--	--	--	28.0 .45	.80	--	--	
D2 1160.20 SALINAS RIVER AT DAVIS ROAD																		
08/22/72 1010	5050 5050		5.8 70	78 26	F C	7.3 1660	--	--	--	--	--	--	--	62.0 1.00	.70	--	--	
D2 1185.20 EL TORO CREEK NEAR SAN BENANCIO BRIDGE																		
08/22/72 1440	5050 5050		18.9 248	85 29	F C	9.2 2460	--	--	--	--	--	--	--	.2 .00	.40	--	--	
D2 1325.10 SALINAS RIVER NEAR GONZALES																		
04/25/72 1220	5050 5050		11.7 127	67 19	F C	8.2 538	--	--	--	--	--	--	--	--	.10	--	--	
05/23/72 0815	5050 5050		10.1 95	55 13	F C	8.5 434	--	--	--	--	--	--	--	--	.20	--	--	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP FIELD PH LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER				MILLIGRAMS PER LITER			
						PERCENT	REACTANCE	VALUE	B 5102	F SUM	TDS	TH NCM	TURB SAR
D2 1325.10 SALINAS RIVER NEAR GONZALES													
08/22/72 0835	5050 5050	9.0 100	69 21	F C 8.4 400 440	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	.00 .10	--	--	--
E0 B 735.0 215.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)													
10/26/71 1345	5050 5050	9.8 98	60 16	F C 8.1 41000 39800	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 16000 451.20 130	--	--	--	32200 4E
11/24/71 1230	5050 5050	8.2 76	53.5F 11.9C	8.0 44000 39300	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 16600 468.12 137	--	--	--	31400 5E
12/21/71 0945	5050 5050	8.5 73	47.5F 8.6C	8.0 41000 39400	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 16800 473.76 138	--	--	--	30000 9E
01/24/72 1430	5050 5050	8.7 76	49 F 9 C	7.9 40000 37800	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 15500 437.10 133	--	--	--	29300 30E
02/17/72 0850	5050 5050	9.2 83	51.5F 10.8C	8.2 37200 37200	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 14200 400.44 124	--	--	--	27000 6A
03/20/72 1230	5050 5050	7.9 79	60 F 16 C	8.8 36000 36700	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 14500 408.90 128	--	--	--	26700 3A
04/18/72 1130	5050 5050	7.9 75	56 F 13 C	8.0 39000 37500	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 14600 411.72 126	--	--	--	27600 4.8A
05/16/72 1045	5050 5050	7.3 78	66 F 19 C	8.1 39000 39100	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 16200 456.84 134	--	--	--	30100 3A
06/13/72 0915	5050 5050	6.9 73	65 F 18 C	8.0 40000 41400	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 17100 482.22 134	--	--	--	32100 3A
07/11/72 0900	5050 5050	7.0 78	70 F 21 C	8.1 44000 43000	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 17700 499.14 133	--	--	--	35500 6A
08/09/72 0800	5050 5050	6.4 71	70 F 21 C	8.0 44000 43000	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 17700 499.14 133	--	--	--	35400 3A
09/11/72 1000	5050 5050	6.7 74	69 F 21 C	7.9 44000 48400	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 18600 524.52 125	--	--	--	34000 1A
E0 B 736.2 212.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)													
10/26/71 1430	5050 5050	10.7 105	58.5F 14.7C	8.4 42500 40300	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 16400 462.48	--	--	--	33000 3E
11/24/71 1345	5050 5050	8.1 75	54 F 12 C	8.0 48000 39300	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 16600 468.12	--	--	--	31400 9E
12/21/71 1030	5050 5050	8.3 70	47 F 8 C	7.9 41000 39200	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 15900 448.38	--	--	--	29800 25E
01/24/72 1515	5050 5050	9.7 85	49 F 9 C	8.0 40000 38200	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 15700 442.74	--	--	--	29300 20E
02/17/72 0950	5050 5050	9.1 82	51.5F 10.8C	8.2 37100 37100	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 14100 397.62	--	--	--	27100 4A
03/20/72 1330	5050 5050	6.5 65	60 F 16 C	8.7 38000 37000	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 15000 423.00	--	--	--	27000 3A
04/18/72 1215	5050 5050	8.6 84	58 F 14 C	8.2 38500 37600	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 14700 414.54	--	--	--	27800 12A
05/16/72 1145	5050 5050	10.6 116	68 F 20 C	8.2 38000 39200	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 15800 445.56	--	--	--	30200 5A
06/13/72 0945	5050 5050	7.0 76	68 F 20 C	8.0 43000 42400	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 17500 493.50	--	--	--	33100 21A
07/11/72 0930	5050 5050	7.3 80	68 F 20 C	8.2 43000 42900	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 17700 499.14	--	--	--	35300 10A
08/09/72 0845	5050 5050	6.4 71	70 F 21 C	8.1 45000 43400	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 17800 501.96	--	--	--	36100 15A
09/11/72 1100	5050 5050	8.2 90	68 F 20 C	8.2 45000 49100	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- -- -- -- -- -- -- --	-- 18800 530.16	--	--	--	34700 2A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP PH EC	FIELD LABORATORY	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HC ₀₃ 504 CL NO ₃	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER			
							PERCENT	REACTANCE	VALUE	B	F	TDS SUM	TH NCH
E0 B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND													
10/26/71 1115	5050 5050		7.6 74	57.5F 14.2C	8.0 38900	-- -- -- -- --	--	15500 437.10	--	--	--	31500	SE
11/24/71 1045	5050 5050		7.5 69	53 F 12 C	7.8 39400	-- -- -- -- --	--	16600 468.12	--	--	--	31000	3E
12/21/71 0830	5050 5050		7.4 64	48 F 9 C	7.7 39600	-- -- -- -- --	--	16600 468.12	--	--	--	30100	7E
01/24/72 1245	5050 5050		8.7 76	49 F 9 C	8.0 38400	-- -- -- -- --	--	16200 456.84	--	--	--	30700	20E
02/17/72 0750	5050 5050		8.5 75	50 F 10 C	8.2 39000 40000	-- -- -- -- --	--	15400 434.28	--	--	--	29400	6A
03/20/72 1045	5050 5050		7.6 73	57 F 14 C	8.2 39000 39300	-- -- -- -- --	--	16200 456.84	--	--	--	28800	3A
04/18/72 1015	5050 5050		7.3 69	55 F 13 C	8.0 41900	-- -- -- -- --	--	16700 470.94	--	--	--	31500	3.3A
05/16/72 0950	5050 5050		6.8 68	60 F 16 C	7.8 42800	-- -- -- -- --	--	15300 431.46	--	--	--	28000	6A
06/13/72 0800	5050 5050		7.6 78	62 F 17 C	8.0 43500	-- -- -- -- --	--	18300 516.06	--	--	--	34500	4A
07/11/72 0730	5050 5050		6.8 72	65 F 18 C	8.1 44400	-- -- -- -- --	--	18400 518.88	--	--	--	36600	5A
08/09/72 0645	5050 5050		7.0 73	63.5F 17.5C	8.0 43200	-- -- -- -- --	--	18000 507.60	--	--	--	35500	4A
09/11/72 0915	5050 5050		6.9 72	66 F 18 C	8.0 47200	-- -- -- -- --	--	18200 513.24	--	--	--	32800	2A
E0 B 801.8 222.3 SAN PABLO BAY NEAR PINOLE POINT													
11/17/71 1305	5001 5006		9.6 91	55 F 13 C	7.7 7.7	36900	-- -- -- -- --	0 .00 122 2.00 1	-- 12900 363.78 99	1.3 .02	--	--	11A
03/09/72 0900	5001 5006	3	8.9 84	55 F 13 C	8.2 8.2	28600	-- -- -- -- --	0 .00 112 1.84 1	-- 10400 293.28 99	1.2 .02	--	--	3A
04/10/72 1305	5001 5006	3	9.0 87	57 F 14 C	7.8 7.8	30300	-- -- -- -- --	0 .00 112 1.84 1	-- 11500 324.30 99	1.1 .02	--	--	7A
05/09/72 1150	5001 5006	3	8.7 86	59 F 15 C	7.9 7.7	38300	-- -- -- -- --	0 .00 123 2.02 1	-- 14200 400.44 99	1.3 .02	--	--	7A
06/07/72 1220	5001 5006	3	8.5 86	61 F 16 C	8.0 7.6	40300	-- -- -- -- --	0 .00 121 1.98 1	-- 15300 431.46 100	1.2 .02	--	--	5A
07/07/72 1400	5001 5006	3	7.9 86	68 F 20 C	8.0 7.8	37600	-- -- -- -- --	0 .00 127 2.08 1	-- 16200 456.84 100	.8 .01	--	--	4A
08/07/72 1410	5001 5006	3	7.5 80	66 F 19 C	7.8 8.1	43100	-- -- -- -- --	0 .00 128 2.10 1	-- 16300 459.66 100	.4 .01	--	--	5A
09/07/72 1515	5001 5006	3	7.6 83	68 F 20 C	7.8 8.7	42300	-- -- -- -- --	0 .00 127 2.08 1	-- 13000 366.60 99	.3 .00	--	--	3A
E0 B 802.3 207.1 SUISEN BAY OFF BULLS HEAD POINT													
10/15/71 1310	5001 5006		8.3 87	64 F 18 C	7.5 7.5	18100	-- -- -- -- --	--	-- 5400 152.28	--	--	--	35A
10/26/71 1045	5001 5006	3	9.0 91	61 F 16 C	7.7 7.7	18800	-- -- -- -- --	0 .00 93 1.52 1	-- 6300 177.66 99	1.0 .02	--	--	14A
11/09/71 1330	5001 5006		59 15	F C	7.5 15	15100	-- -- -- -- --	2900 126.15	-- 4600 129.72	--	--	--	
11/17/71 1415	5001 5006	3	11.0 102	54 F 12 C	7.6 7.6	24200	-- -- -- -- --	0 .00 98 1.61 1	-- 7900 222.78 99	1.1 .02	--	--	16A
12/13/71 1245	5001 5006	3	11.1 98	50 F 10 C	7.7 7.6	17400	-- -- -- -- --	0 .00 94 1.54 1	-- 6500 183.30 99	1.4 .02	--	--	13A
01/10/72 1235	5001 5006	3	11.7 96	45 F 7 C	7.6 7.7	12500	-- -- -- -- --	0 .00 83 1.36 1	-- 4100 115.62 99	2.1 .03	--	--	16A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER			MILLIEQUIVALENTS PER LITER			MILLIGRAMS PER LITER		
							PERCENT REACTANCE	VALUE	B SiO ₂	F SUM	TDS NCH	TH TURB SAR			
E0 B 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT															
02/08/72 1125	5001 5006		48 9	F C	16200	-- -- 3100 134.85	-- --	-- --	-- 5400 152.28	-- --	-- --	-- --	11400*		
02/11/72 1245	5001 5006	3	9.2 79	48 9	F C	7.5 7.6	15900	-- -- --	0 .00 1.51 1	.92 1	-- 5700 160.74	1.9 .03	-- -- 12.0	12A	
03/09/72 1015	5001 5006	3	10.0 97	57 14	F C	7.9 7.4	14000	-- -- --	-- --	-- 4400 124.08	-- --	-- -- 15.0		10A	
03/22/72 0905	5001 5006	3	9.8 97	59 15	F C	7.8 7.4	15300	-- -- --	0 .00 1.48 1	.90 1	-- 5700 160.74	1.2 .02	-- -- 13.0	15A	
04/10/72 1420	5001 5006	3	9.0 89	59 15	F C	7.8 7.7	17100	-- -- --	-- --	-- 6200 174.84	-- --	-- -- 12.0		27A	
04/24/72 1330	5001 5006	3	9.2 93	61 16	F C	7.9 7.7	22300	-- -- --	0 .00 1.64 1	100 1	-- 7100 200.22	1.3 .02	-- -- 10.0		10A
05/09/72 1130	5001 5006					26900	-- -- 4400 191.40	-- --	-- --	-- 7960 224.47	-- --	-- --	19300*		
05/09/72 1315	5001 5006	3	9.5 96	61 16	F C	7.9 7.4	23500	-- -- --	-- --	-- 8000 225.60	-- --	-- -- 8.1		8A	
05/22/72 1240	5001 5006	3	9.3 98	64 18	F C	7.9 7.1	23700	-- -- --	0 .00 1.66 1	101 1	-- 8190 230.96	1.2 .02	-- -- 9.2		7A
06/07/72 1325	5001 5006	3	10.0 105	64 18	F C	8.2 7.9	27400	-- -- --	-- --	-- 9950 280.59	-- --	-- -- 5.1		5A	
06/20/72 1205	5001 5006	3	8.2 88	66 19	F C	8.1 7.9	26600	-- -- --	0 .00 1.67 1	102 1	-- 9530 268.75	.7 .01	-- -- 2.9		6A
06/20/72 1530	5001 5006					26600	-- -- --	-- --	-- --	-- --	-- --	-- --		6A	
07/07/72 1530	5001 5006	3	8.8 96	68 20	F C	8.1 7.9	25900	-- -- --	-- --	-- 9500 267.90	-- --	-- -- 3.0		5A	
07/19/72 1135	5001 5006	3	7.8 85	68 20	F C	8.0 8.1	26300	-- -- --	0 .00 1.74 1	106 1	-- 9450 266.49	.6 .01	-- -- 3.7		6A
08/07/72 1515	5001 5006	3	8.1 90	70 21	F C	7.9 7.9	25200	-- -- --	-- --	-- 9100 256.62	-- --	-- -- 2.0		13A	
08/08/72 1245	5001 5006			68 20	F C	8.0 7.8	22400	-- -- 4300 187.05	-- --	-- 7700 217.14	-- --	-- --	14800*		
08/21/72 1550	5001 5006	3	8.6 96	70 21	F C	8.0 7.8	23500	-- -- --	0 .00 1.64 1	100 1	-- 8600 242.52	.4 .01	-- -- 1.4		5A
09/07/72 1625	5001 5006	3	8.1 88	68 20	F C	7.8 7.9	26400	-- -- --	-- --	-- 8900 250.98	-- --	-- -- 1.6		6A	
09/20/72 1400	5001 5006	3	8.9 97	68 20	F C	7.9 7.9	18000	-- -- --	0 .00 1.49 1	91 1	-- 6300 177.66	.2 .00	-- -- 2.0		13A
E0 B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND															
10/15/71 1405	5001 5006	3	9.3 98	64 18	F C	7.6 7.4	1130	-- -- --	-- --	-- 295 8.32	-- --	-- --		60A	
10/26/71 1225	5001 5006	3	9.4 95	61 16	F C	7.6 7.4	900	-- -- --	0 .00 1.08 15	66 1	-- 220 6.20	.5 .01	-- -- 13.0		28A
11/17/71 1505	5001 5006	3	10.4 96	54 12	F C	7.6 7.7	3290	-- -- --	0 .00 1.18 4	72 1	-- 920 25.94	1.0 .02	-- -- 15.0		32A
12/13/71 1340	5001 5006	3	11.3 100	50 10	F C	7.7 7.5	2700	-- -- --	0 .00 1.13 5	69 1	-- 820 23.12	1.1 .02	-- -- 16.0		22A
01/10/72 1340	5001 5006	3	11.4 91	43 6	F C	7.5 7.6	1190	-- -- --	0 .00 1.10 11	67 1	-- 315 8.88	2.1 .03	-- -- 18.0		18A
02/11/72 1355	5001 5006	3	9.7 82	46 8	F C	7.5 7.3	1640	-- -- --	0 .00 1.18 8	72 1	-- 470 13.25	1.7 .03	-- -- 16.0		18A
03/09/72 1100	5001 5006	3	10.0 97	57 14	F C	7.8 7.4	382	-- -- --	-- --	-- 79 2.23	-- --	-- -- 22.0		30A	
03/22/72 1030	5001 5006	3	9.8 97	59 15	F C	7.8 7.5	577	-- -- --	0 .00 1.05 22	64 1	-- 134 3.78	1.1 .02	-- -- 18.0		30A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER			
							PERCENT REACTANCE	VALUE	B 5102	F TOS SUM	TH NCH	TURB SAR	
E0 B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND													
04/10/72 1515	5001 5006	9.6 3	59 95	F C	7.9 3730	-- -- -- -- --	--	1180 33.28	--	--	17.0	50A	
05/09/72 1405	5001 5006	9.9 3	63 102	F C	7.7 7360	-- -- -- -- --	--	2300 64.86	--	--	12.0	33A	
05/22/72 1430	5001 5006	9.5 3	66 102	F C	7.8 8.0 7650	-- -- -- -- --	0 .00 1.31 .01 2	2340 65.99 .98	.8 .01	--	12.7	23A	
06/07/72 1420	5001 5006	9.5 3	66 102	F C	8.3 10500	-- -- -- -- --	--	3470 97.85	--	--	8.6	29A	
06/20/72 1405	5001 5006	9.9 3	68 108	F C	8.3 7.8 12700	-- -- -- -- --	0 .00 1.31 .01 1	3170 89.39 .99	.4 .01	--	6.7	26A	
07/07/72 1630	5001 5006	9.3 3	70 104	F C	8.1 9080	-- -- -- -- --	--	--	--	--	8.7	20A	
07/19/72 1310	5001 5006	8.4 3	72 95	F C	8.2 8.1 9690	-- -- -- -- --	0 .00 1.39 .01 2	2840 80.09 .98	.4 .01	--	8.0	35A	
08/07/72 1600	5001 5006	9.1 3	70 101	F C	8.0 9460	-- -- -- -- --	--	3100 87.42	--	--	5.3	55A	
08/21/72 1715	5001 5006	9.4 3	72 107	F C	8.2 7.9 6910	-- -- -- -- --	0 .00 1.34 .01 2	2000 56.40 .98	.1 .00	--	6.2	22A	
09/07/72 1720	5001 5006	9.1 3	68 99	F C	7.9 7600	-- -- -- -- --	--	2000 56.40	--	--	5.2	38A	
09/20/72 1525	5001 5006	9.3 3	68 102	F C	7.8 7.8 2320	-- -- -- -- --	0 .00 1.33 .01 7	660 18.61 .93	.2 .00	--	11.4	36A	
E0 B 803.2 204.8 SUISUN BAY ABOVE AVON PIER													
07/11/72 1120	5001 5006	77 25	F C	7.6 1020	25 1.25 13 20	23 6.18 1.89	142 7.4 6.18 7.19	0 0.00 .00 1.31	80 14 1.31 14	63 14 6.66 72	.20	--	653* 536 157 92 4.9
E0 B 803.5 201.4 SUISUN BAY NEAR PORT CHICAGO													
10/04/71 1300	5001 5006	8.5 3	66 91	F C	7.8 19	3600	-- -- -- -- --	--	--	.5 .01	--	85A	
10/12/71 1230	5001 5006	8.5 4	64 89	F C	7.9 18	5700	-- -- -- -- --	--	--	--	--	37A	
10/19/71 1030	5001 5006	8.4 86	63 17	F C	8.4 4800	-- -- -- -- --	--	--	--	--	--	40A	
10/27/71 1000	5001 5006	8.7 86	59 15	F C	7.6 6500	-- -- -- -- --	--	--	--	--	--	45A	
11/02/71 1445	5001 5006	9.0 87	57 14	F C	>15000	-- -- -- -- --	--	--	--	--	--	40A	
11/09/71 1230	5001 5006	59 15	F C	10500	-- -- -- -- --	1800 78.30	--	--	3000 84.60	--	--	6730*	
11/09/71 1400	5001 5006	9.1 88	57 14	F C	7.3 10800	-- -- -- -- --	--	--	3600 101.52	--	--	50A	
11/29/71 1300	5001 5006	9.6 89	54 12	F C	7.4 7.5>15000	-- -- -- -- --	0 .00 1.46 .00 1.46	5800 163.56 .99 .02	.3 .02	--	10.0	32A	
12/03/71 1220	5001 5006	9.9 89	52 11	F C	7.6 9200	-- -- -- -- --	--	--	--	--	--	50A	
12/14/71 1200	5001 5006	10.4 90	48 9	F C	>15000	-- -- -- -- --	--	--	1.3 .02	--	--	50A	
12/21/71 1135	5001 5006	11.0 90	45 7	F C	7.4 6000	-- -- -- -- --	--	--	1.2 .02	--	--	25A	
01/04/72 1155	5001 5006	12.1 99	45 7	F C	7.2 600	-- -- -- -- --	0 .00 1.07	300 8.46	--	--	19.0	59A	
01/06/72 1330	5001 5006	11.8 97	45 7	F C	6.9 3600	-- -- -- -- --	--	--	--	--	--	50A	
01/12/72 1130	5001 5006	10.4 85	45 7	F C	6.9>15000	-- -- -- -- --	0 .00 1.48	1.9 .03	--	--	--	20A	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. Q DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HC ₀₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				
							PERCENT REACTANCE VALUE	8 SI02	F SUM	TDS NCH	TH TURB SAR				
E0 B 803.5 201.4 SUISEN BAY NEAR PORT CHICAGO															
01/17/72 1250	5001 5006		10.7 88	45 7	F C	7.1 7.6	7800	--	--	--	0 .00	.76 1.25	--	2340 65.99	--
		6												--	15.0
01/24/72 1245	5001 5006		10.5 91	48 9	F C	7.1 7.4	9750	--	--	--	0 .00	.84 1.38	--	2800 78.96	--
		3												--	16.0
01/31/72 1330	5001 5006		11.2 92	45 7	F C	7.8 7.5	1550	--	--	--	0 .00	.74 1.21	--	425 11.99	--
		5												--	18.0
02/07/72 1330	5001 5006		10.6 91	48 9	F C	7.3 7.5	8100	--	--	--	0 .00	.80 1.31	--	2600 73.32	1.6 .03
		2												--	15.0
02/08/72 1100	5001 5006			48 9	F C		7250	--	--	--	1300 56.55	--	--	2260 63.73	--
														--	4560*
02/14/72 1330	5001 5006		10.1 89	50 10	F C	7.3 7.7	4600	--	--	--	0 .00	.90 1.48	--	3300 93.06	--
		7												--	15.0
02/22/72 1305	5001 5006		9.6 89	54 12	F C	7.8 7.4	11600	--	--	--	0 .00	.85 1.39	--	4200 118.44	--
		3												--	16.0
02/28/72 1230	5001 5006		9.6 91	55 13	F C	8.1 7.7	1900	--	--	--	0 .00	.71 1.16	--	155 4.37	--
		5												--	22.0
03/06/72 1300	5001 5006		9.3 92	59 15	F C	8.3 7.5	3500	--	--	--	--	--	--	1020 28.76	--
		2												--	19.0
03/13/72 1132	5001 5006		9.2 93	61 16	F C	7.4 7.5	4300	--	--	--	--	--	--	1220 34.40	1.5 .02
		6												--	20.0
03/20/72 1330	5001 5006		8.9 92	63 17	F C	7.2 7.5		--	--	--	--	--	--	1040 29.33	1.4 .02
		1												--	18.0
04/03/72 1135	5001 5006		8.9 90	61 16	F C	7.7 7.5		--	--	--	--	--	--	2120 59.78	--
		2												--	18.0
04/12/72 1410	5001 5006		9.1 90	59 15	F C	7.6 7.5	14100	--	--	--	--	--	--	4600 129.72	1.4 .02
		5												--	13.0
04/27/72 0745	5001 5006		8.9 92	63 17	F C	7.6 7.5		--	--	--	--	--	--	3200 90.24	1.3 .02
		3												--	14.0
05/04/72 1440	5001 5006		9.0 93	63 17	F C	7.5 7.5		--	--	--	--	--	--	4100 115.62	--
		4												--	11.0
05/09/72 1055	5001 5006						14600	--	--	2400 104.40	--	--	--	4260 120.13	--
														--	10400*
05/16/72 1430	5001 5006		8.5 93	68 20	F C	7.5 7.5	11100	--	--	--	--	--	--	4680 131.98	--
		3												--	165A
05/24/72 1545	5001 5006		8.4 88	64 18	F C	7.6 7.5	>15000	--	--	--	--	--	--	6070 171.17	.5 .01
		7												--	35A
06/01/72 1410	5001 5006		8.9 97	68 20	F C	8.0 7.5	14200	--	--	--	--	--	--	3810 107.44	--
		2												--	45A
06/26/72 1300	5001 5006							--	--	--	--	--	--	6480 182.74	.4 .01
														--	3.8
07/03/72 1315	5001 5006		8.4 94	70 21	F C	8.0 8.0	>15000	--	--	--	--	--	--	5850 164.97	.5 .01
														--	26A
07/17/72 1310	5001 5006		8.6 98	72 22	F C	7.9 7.5	>15000	--	--	--	--	--	--	.5 .01	--
		3												--	33A
07/18/72 1310	5001							--	--	--	--	--	--	--	--
07/24/72 1540	5001 5006		8.9 99	70 21	F C	8.0 8.0	16000	--	--	--	--	--	--	5700 160.74	--
		3												--	47A
07/31/72 1600	5001 5006		8.9 101	72 22	F C	7.9 7.5	11600	--	--	--	--	--	--	--	--
														--	60A
08/08/72 1145	5001 5006		70 21	F C		10700	--	--	1900 82.65	--	--	--	--	3400 95.88	--
														--	6620*

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP FIELD PH	LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HC _{CO₃} SO ₄ CL NO ₃	MILLIGRAMS PER LITER				MILLIGRAMS PER LITER					
							MILLIEQUIVALENTS PER LITER				PERCENT REACTANCE VALUE					
							B	F	TDS	TH	SIO ₂	SUM	NCH	TURB SAR		
E0 B 803.5 217.0 SAN PABLO BAY NEAR RODEO																
11/17/71 1335	5001 5006		10.7 99	54 12	F C	7.7 7.6 27300	--	--	--	0	108 1.77 1	-- 9200 259.44 99	1.8 .03	--	8.7	14A
		3														
12/13/71 1200	5001 5006		10.4 90	48 9	F C	7.7 7.7 25100	--	--	--	0	102 1.67 1	-- 8000 225.60 99	1.3 .02	--	9.6	7A
		3														
03/09/72 0935	5001 5006		9.2 89	57 14	F C	8.0 8.0 17200	--	--	--	0	97 1.59 1	-- 6100 172.02 99	1.6 .03	--	15.0	7A
		3														
04/10/72 1330	5001 5006		8.0 77	57 14	F C	7.9 7.8 26900	--	--	--	0	106 1.74 1	-- 10000 282.00 99	1.1 .02	--	8.1	32A
		3														
05/09/72 1225	5001 5006		8.9 90	61 16	F C	8.0 7.7 33400	--	--	--	0	117 1.92 1	-- 11600 327.12 99	1.2 .02	--	6.1	21A
		3														
06/07/72 1250	5001 5006		8.5 87	63 17	F C	8.1 7.7 36200	--	--	--	0	115 1.88	-- 13300 375.06 99	1.3 .02	--	5.0	6A
		3														
07/07/72 1450	5001 5006		8.2 90	68 20	F C	8.0 7.7 34800	--	--	--	0	118 1.93 1	-- 12900 363.78 99	.8 .01	--	2.9	7A
		3														
08/07/72 1435	5001 5006		7.6 83	68 20	F C	7.8 8.0 34800	--	--	--	0	111 1.82 1	-- 12800 360.96 99	.2 .00	--	2.6	12A
		3														
09/07/72 1545	5001 5006		7.7 84	68 20	F C	7.8 7.7 38000	--	--	--	0	121 1.98 1	-- 11000 310.20 99	.8 .01	--	2.2	4A
		3														
E0 B 803.6 159.3 SUISUN BAY OFF MIDDLE POINT																
10/26/71 1135	5001 5006		9.5 96	61 16	F C	7.8 2550	--	--	--	--	--	-- 620 17.48	--	--	12.0	29A
		3														
03/22/72 0945	5001 5006		9.4 93	59 15	F C	7.8 7.7 3830	--	--	--	0	70 1.15	-- 1170 32.99	--	--	19.0	31A
		3														
05/22/72 1340	5001 5006		9.3 100	66 19	F C	8.0 12500	--	--	--	--	--	-- 4180 117.88	--	--	11.5	17A
		3														
06/20/72 1320	5001 5006		9.5 104	68 20	F C	8.4 15000	--	--	--	--	--	-- 5020 141.56	--	--	3.6	14A
		3														
07/19/72 1230	5001 5006		8.3 94	72 22	F C	8.3 12400	--	--	--	--	--	-- 3970 111.95	--	--	6.1	21A
		3														
08/21/72 1640	5001 5006		9.6 109	72 22	F C	8.3 13200	--	--	--	--	--	-- 4300 121.26	--	--	2.2	20A
		3														
09/20/72 1445	5001 5006		9.2 101	68 20	F C	7.9 5070	--	--	--	--	--	-- 1400 39.48	--	--	8.0	36A
		3														
E0 B 804.0 203.0 SUISUN BAY NEAR PRESTON POINT																
10/26/71 1115	5001 5006		9.2 93	61 16	F C	7.8 7500	--	--	--	--	--	-- 2400 67.68	--	--	11.0	28A
		3														
01/10/72 1305	5001		43 6	F C			--	--	--	--	--	--	--	--		
		3														
03/22/72 0930	5001 5006		8.4 83	59 15	F C	7.8 7470	--	--	--	0	74 1.21	-- 2480 69.94	--	--	17.0	40A
		3														
05/22/72 1310	5001 5006		10.7 115	66 19	F C	8.2 15100	--	--	--	--	--	-- 4860 137.05	--	--	10.3	10A
		3														
06/20/72 1245	5001 5006		9.5 104	68 20	F C	8.3 18200	--	--	--	--	--	-- 6300 177.66	--	--	3.0	25A
		3														
07/19/72 1215	5001 5006		8.3 92	70 21	F C	8.2 20100	--	--	--	--	--	-- 7670 216.29	--	--	4.0	14A
		3														
08/21/72 1620	5001 5006		9.7 108	70 21	F C	8.4 15100	--	--	--	--	--	-- 4900 138.18	--	--	1.2	28A
		3														
09/20/72 1425	5001 5006		9.0 96	66 19	F C	7.8 12400	--	--	--	--	--	-- 4000 112.80	--	--	2.8	28A
		3														

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q DEPTH	DO SAT	TEMP PM EC	FIELD LABORATORY	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ PERCENT REACTANCE VALUE	MILLIGRAMS PER LITER		MILLIGRAMS PER LITER		
							504 CL NO ₃	504 CL NO ₃	B SI0 ₂	F TDS SUM	TH NCH
E0 B 804.4 156.2 HONKER BAY NEAR WHEELER POINT											
10/14/71 1300	5001 5006		9.2 97	64 18	F C	7.6 969	-- -- -- -- --	-- 1.41	.50 --	-- --	60A
		3								12.0	
10/26/71 1155	5001 5006		9.2 93	61 16	F C	7.5 812	-- -- -- -- --	0 .00	.66 1.08	.195 .5	-- --
		3							16	.550 .01	32A
11/16/71 1220	5001 5006		10.6 98	54 12	F C	7.7 7.6 4490	-- -- -- -- --	0 .00	.71 1.16	.980 .9	-- --
		3							4	.2764 .01	50A
03/08/72 0850	5001 5006		8.5 82	57 14	F C	7.7 1170	-- -- -- -- --	--	-- 305	-- --	-- --
		3							8.60		20.0
03/22/72 1005	5001 5006		9.6 95	59 15	F C	7.8 7.5 1130	-- -- -- -- --	0 .00	.65 1.07	.270 1.2	-- --
		3							12	.761 .02	40A
04/11/72 1210	5001 5006		9.1 90	59 15	F C	7.9 4120	-- -- -- -- --	--	-- 1320	-- --	-- --
		3							37.22		70A
05/08/72 1145	5001 5006		10.2 105	63 17	F C	7.7 6670	-- -- -- -- --	--	-- 2240	-- --	-- --
		3							63.17		31A
05/22/72 1405	5001 5006		9.6 105	68 20	F C	7.9 8.1 7910	-- -- -- -- --	0 .00	.81 1.33	.2440 .8	-- --
		3							2	.6881 .01	24A
06/06/72 1135	5001 5006		9.1 99	68 20	F C	7.9 8570	-- -- -- -- --	--	-- 2720	-- --	-- --
		3							76.70		27A
06/20/72 1340	5001 5006		10.0 109	68 20	F C	8.4 8.0 11800	-- -- -- -- --	0 .00	.87 1.43	.3870 .3	-- --
		3							1	.10913 .00	27A
07/06/72 1325	5001 5006		9.3 102	68 20	F C	8.3 10900	-- -- -- -- --	--	-- 3260	-- --	-- --
		3							91.93		28A
07/19/72 1250	5001 5006		8.8 98	70 21	F C	8.3 8.2 11000	-- -- -- -- --	0 .00	.86 1.41	.3300 .3	-- --
		3							1	.9306 .00	40A
08/03/72 1220	5001 5006		9.6 105	68 20	F C	8.2 9330	-- -- -- -- --	--	-- 2960	-- --	-- --
		3							83.47		60A
08/21/72 1655	5001 5006		9.2 104	72 22	F C	8.2 7.7 7330	-- -- -- -- --	0 .00	.82 1.34	.2200 .0	-- --
		3							2	.6204 .00	27A
09/06/72 1505	5001 5006		8.8 98	70 21	F C	7.9 6340	-- -- -- -- --	--	-- 1600	-- --	-- --
		3							45.12		70A
09/20/72 1505	5001 5006		8.9 97	68 20	F C	7.9 7.8 1850	-- -- -- -- --	0 .00	.80 1.31	.540 .3	-- --
		3							8	.1523 .00	32A
E0 B 805.3 226.3 SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER											
11/17/71 1220	5001 5006		10.5 95	52 11	F C	7.7 7.8 29300	-- -- -- -- --	0 .00	.111 1.82	.9800 1.8	-- --
		3							1	.27636 .03	19A
03/09/72 0830	5001 5006		10.0 97	57 14	F C	7.8 7.9 22900	-- -- -- -- --	0 .00	.106 1.74	.8100 1.6	-- --
		3							1	.22842 .03	10A
04/10/72 1230	5001 5006		8.5 82	57 14	F C	8.0 8.2 31300	-- -- -- -- --	0 .00	.117 1.92	.11500 .6	-- --
		3							1	.32430 .01	15A
05/09/72 1105	5001 5006		9.0 91	61 16	F C	8.0 7.7 34300	-- -- -- -- --	0 .00	.117 1.92	.12400 1.5	-- --
		3							1	.34968 .02	15A
06/07/72 1135	5001 5006		8.5 91	66 19	F C	8.0 7.8 35600	-- -- -- -- --	0 .00	.113 1.85	.13000 1.6	-- --
		3							1	.36660 .03	12A
07/07/72 1325	5001 5006		10.0 111	70 21	F C	8.0 8.1 38700	-- -- -- -- --	0 .00	.121 1.98	.15000 .1	-- --
		3							1	.42300 .00	6A
08/07/72 1330	5001 5006		7.7 86	70 21	F C	7.8 8.3 35800	-- -- -- -- --	0 .00	.121 1.98	.14800 .3	-- --
		3							100	.41736 .00	34A
09/07/72 1450	5001 5006		7.6 85	70 21	F C	7.9 7.9 37000	-- -- -- -- --	0 .00	.117 1.92	.11000 .1	-- --
		3							1	.31020 .00	12A
E0 B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH											
10/14/71 1210	5001 5006		9.1 96	64 18	F C	7.3 9.6 4400	-- -- -- -- --	--	-- 1300	-- --	-- --
		3							36.66		65A
10/26/71 1005	5001 5006		9.5 94	59 15	F C	7.6 8.3 4190	-- -- -- -- --	0 .00	.69 1.13	.1100 .8	-- --
		3							4	.3102 .01	38A

TABLE D-2 (CONTINUED)
 MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃	MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER				
							8	F	TDS SUM	TH NCH	504	CL NO ₃	8	SIO ₂	F	TDS SUM	TH NCH	TURB SAR	
EO 8 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH																			
11/16/71 1150	5001 5006	10.6 3	55 100	F C	7.3 7.7	8480	--	--	--	0 .00	83 1.36 2	--	2520 71.06 98	1.0 .02	--	--	--	60A	
12/13/71 1050	5001 5006	11.8 3	48 102	F C	7.3 7.7	7570	--	--	--	0 .00	79 1.29 2	--	2360 66.55 98	1.2 .02	--	--	--	27A	
01/10/72 1145	5001 5006	10.3 3	43 83	F C	7.7 7.6	3800	--	--	--	0 .00	70 1.15 3	--	1130 31.87 96	1.7 .03	--	--	--	23A	
03/08/72 0810	5001 5006	8.9 3	57 86	F C	7.6 7.6	2860	--	--	--	--	--	--	810 22.84	--	--	--	--	38A	
03/22/72 0820	5001 5006	9.7 3	59 96	F C	7.2 7.5	3030	--	--	--	0 .00	67 1.10 28	--	100 2.82 72	1.4 .02 1	--	--	--	50A	
04/11/72 1130	5001 5006	9.3 3	59 92	F C	7.7 7.7	8310	--	--	--	--	--	--	2680 75.58	--	--	--	--	65A	
04/24/72 1220	5001 5006	10.0 3	61 101	F C	7.7 7.7	7940	--	--	--	0 .00	83 1.36 2	--	2440 68.81 98	1.2 .02	--	--	--	33A	
05/08/72 1100	5001 5006	10.2 3	61 103	F C	7.7 7.7	11500	--	--	--	--	--	--	38 1.07	--	--	--	--	23A	
05/22/72 1145	5001 5006	9.8 3	64 103	F C	8.0 7.3	12500	--	--	--	0 .00	78 1.28 1	--	4050 114.21 99	.8 .01	--	--	--	17A	
06/06/72 1100	5001 5006	10.1 3	66 108	F C	8.1 8.1	14600	--	--	--	--	--	--	4900 138.18	--	--	--	--	23A	
06/20/72 1120	5001 5006	9.3 3	66 100	F C	8.3 8.0	17900	--	--	--	0 .00	93 1.52 1	--	6100 172.02 99	.2 .00	--	--	--	22A	
07/06/72 1240	5001 5006	9.1 3	68 99	F C	8.1 8.1	16700	--	--	--	--	--	--	5580 157.36	--	--	--	--	26A	
07/19/72 1045	5001 5006	8.6 3	68 94	F C	8.0 8.1	17000	--	--	--	0 .00	94 1.54 1	--	5630 158.77 99	.4 .01	--	--	--	33A	
08/03/72 1130	5001 5006	9.0 3	68 98	F C	8.3 8.0	14800	--	--	--	--	--	--	4900 138.18	--	--	--	--	50A	
08/21/72 1500	5001 5006	10.2 3	70 114	F C	8.1 8.1	11800	--	--	--	0 .00	87 1.43 1	--	3800 107.16 99	.1 .00	--	--	--	38A	
09/06/72 1430	5001 5006	8.9 3	70 99	F C	8.0 8.1	11600	--	--	--	--	--	--	3300 93.06	--	--	--	--	50A	
09/20/72 1315	5001 5006	9.1 3	66 97	F C	7.5 7.9	6820	--	--	--	0 .00	84 1.38 2	--	2100 59.22 98	.1 .00	--	--	--	39A	
EO 5 809.2 205.3 CORDELIA SLOUGH AT CYGNUS																			
10/28/71 1005	5001 5006	7.4 3	55 70	F C	6.8 7.3	2480	--	--	--	--	--	--	--	--	--	--	--	65A	
11/24/71 0845	5001 5006	9.7 3	52 88	F C	7.3 7.5	4950	--	--	--	0 .00	90 1.48 4	--	1440 40.61 96	1.3 .02	--	--	--	45A	
12/13/71 1025	5001 5006	10.8 3	46 91	F C	7.2 7.8	4000	--	--	--	--	--	--	--	--	--	--	--	65A	
01/10/72 1010	5001 5006	12.0 3	45 99	F C	7.2 7.7	1590	--	--	--	--	--	--	--	--	--	--	--	50A	
02/08/72 0930	5001 5006	9.8 3	48 85	F C	7.0 7.9	2730	--	--	--	--	--	--	--	760 21.43	2.2 .04	--	--	--	45A
03/09/72 0930	5001 5006	8.5 3	61 86	F C	7.2 8.1	2290	--	--	--	--	--	--	--	625 17.63	--	--	--	--	50A
04/07/72 0830	5001 5006	8.6 3	61 87	F C	7.4 8.1	3950	--	--	--	--	--	--	--	1240 34.97	--	--	--	--	45A
05/05/72 0840	5001 5006	8.9 3	63 92	F C	7.0 7.6	9430	--	--	--	0 .00	84 1.38 2	--	3200 90.24 98	.9 .01	--	--	--	65A	
06/05/72 0950	5001 5006	8.3 3	70 92	F C	7.8 7.8	12300	--	--	--	--	--	--	--	4110 115.90	--	--	--	--	55A
07/03/72 0800	5001 5006	7.5 3	70 84	F C	7.9 8.1	19000	--	--	--	--	--	--	--	6550 184.71	--	--	--	--	34A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. D DEPTH	DO SAT	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER				MILLIGRAMS PER LITER			
							PERCENT PRACTICE	VALUE	B SiO ₂	F SUM	TDS NCH	TH TURB SAH		
E0 S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS														
08/02/72 1030	5001 5006		7.9 88 21	F C	7.8 14200	-- -- -- --	--	4400 .0		--	--			36A
09/15/72 0855	5001 5006	3	8.3 89 19	F C	6.2 10600	-- -- -- --	--	3200 90.24		--	--			35A
E0 S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND														
10/28/71 1220	5001 5006	3	7.9 75 13	F C	7.6 1930	-- -- -- --	--	--	--	--	--			95A
11/24/71 1110	5001 5006	2	8.8 80 11	F C	7.4 3870	-- -- -- --	0 .00	114 1.87	-- 31.02	1.8	.03	--	--	60A
12/13/71 1300	5001 5006	3	9.9 83 8	F C	7.6 3740	-- -- -- --	--	--	--	--	--	--	--	55A
01/10/72 1230	5001 5006	3	10.1 83 7	F C	7.5 2870	-- -- -- --	--	--	--	--	--	--	--	95A
02/08/72 1300	5001 5006	2	9.7 82 8	F C	7.5 2990	-- -- -- --	--	--	810 22.84	4.0 .06	--	--		60A
03/09/72 1205	5001 5006	3	8.8 87 15	F C	7.4 2460	-- -- -- --	--	--	620 17.48	--	--			65A
04/07/72 1115	5001 5006	1	8.4 86 17	F C	7.5 2300	-- -- -- --	--	--	625 17.63	--	--			75A
05/05/72 1210	5001 5006	1	7.7 74 14	F C	7.7 5060	-- -- -- --	0 .00	105 1.72	-- 41.74	3.1 .05	--	--		75A
06/05/72 1240	5001 5006	1	5.9 66 21	F C	7.6 9610	-- -- -- --	--	--	3200 90.24	--	--			40A
07/03/72 1055	5001 5006	2	7.8 87 21	F C	8.0 15100	-- -- -- --	--	--	5110 144.10	--	--			15A
08/02/72 1515	5001 5006	2	8.1 92 22	F C	7.4 14100	-- -- -- --	--	--	4400 .00	90.24	--	--		39A
09/15/72 1125	5001 5006	3	8.8 96 20	F C	7.7 11900	-- -- -- --	--	--	3700 104.34	--	--			20A
E0 S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD														
10/28/71 1115	5001 5006	3	8.1 77 13	F C	7.5 1760	-- -- -- --	--	--	--	--	--	--	--	65A
11/24/71 1010	5001 5006	3	9.0 81 11	F C	7.3 4170	-- -- -- --	0 .00	105 1.72	-- 32.71	1.8 .03	--	--		55A
12/13/71 1135	5001 5006	3	10.0 86 9	F C	7.6 3530	-- -- -- --	--	--	--	--	--	--	--	50A
01/10/72 1115	5001 5006	3	10.5 86 7	F C	7.5 2550	-- -- -- --	--	--	--	--	--	--	--	65A
02/08/72 1115	5001 5006	3	9.1 79 9	F C	7.0 2990	-- -- -- --	--	--	800 22.56	3.5 .06	--	--		55A
03/09/72 1100	5001 5006	3	7.8 79 16	F C	7.4 2340	-- -- -- --	--	--	645 18.19	--	--			65A
04/07/72 1015	5001 5006	3	6.5 66 16	F C	7.1 2550	-- -- -- --	--	--	670 18.89	--	--			80A
05/05/72 1030	5001 5006	3	7.4 75 16	F C	7.6 5610	-- -- -- --	0 .00	104 1.70	-- 46.25	2.2 .04	--	--		65A
06/05/72 1120	5001 5006	3	7.2 80 21	F C	7.1 9320	-- -- -- --	--	--	2900 81.78	--	--			40A
07/03/72 0950	5001 5006	3	7.3 80 20	F C	7.7 14000	-- -- -- --	--	--	4920 138.74	--	--			30A
08/02/72 1310	5001 5006	3	8.3 94 22	F C	7.9 7480	-- -- -- --	--	--	2380 67.12	.4 .01	--	--		40A
09/15/72 1030	5001 5006	3	8.6 94 20	F C	7.7 11300	-- -- -- --	--	--	3200 90.24	--	--			20A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O DEPTH	DO SAT	TEMP	FIELD PH	LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HC ₀₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER				MILLIGRAMS PER LITER			
								MILLIEQUIVALENTS PER LITER				B SI02	F SUM	TDS NCH	TH TURB SAR
E0 S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD															
10/28/71 1315	5001 5006		6.3 61	57 14	F C	7.3 2530	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	90A
11/24/71 1200	5001 5006	3	8.1 73	52 11	F C	7.3 7.4	3780	-- -- -- --	-- .00 1.61 5	98 29.61 95	-- 1050 1.8 .03	-- --	-- --	-- --	55A
12/13/71 1345	5001 5006	3	9.5 80	46 8	F C	7.5 7.4	3940	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	60A
01/10/72 1340	5001 5006	3	10.3 85	45 7	F C	7.4 7.4	2970	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	55A
02/08/72 1405	5001 5006	3	9.3 80	48 9	F C	7.2 7.4	2940	-- -- -- --	-- -- -- --	-- -- -- --	-- 830 23.41	2.7 .04	-- --	-- --	50A
03/09/72 1305	5001 5006	3	7.9 78	59 15	F C	7.3 7.3	2580	-- -- -- --	-- -- -- --	-- -- -- --	-- 630 17.77	-- --	-- --	-- --	65A
04/07/72 1155	5001 5006	3	8.0 81	61 16	F C	7.3 7.3	2030	-- -- -- --	-- -- -- --	-- -- -- --	-- 540 15.23	-- --	-- --	-- --	110A
05/05/72 1300	5001 5006	3	8.4 85	61 16	F C	7.6 7.4	4560	-- -- -- --	-- .00 1.28 3	78 1.28 3	-- 1340 37.79 97	2.2 .04	-- --	-- --	60A
06/05/72 1345	5001 5006	3	8.4 95	72 22	F C	7.4 7.4	8840	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	40A
07/03/72 1200	5001 5006	3	7.8 87	70 21	F C	7.8 7.8	13100	-- -- -- --	-- -- -- --	-- -- -- --	-- 4620 130.28	-- --	-- --	-- --	17A
08/02/72 1700	5001 5006	3	8.2 93	72 22	F C	7.9 7.9	14200	-- -- -- --	-- -- -- --	-- -- -- --	-- 4600 129.72	.0 .00	-- --	-- --	23A
09/15/72 1240	5001 5006	3	8.3 92	70 21	F C	7.8 7.8	12000	-- -- -- --	-- -- -- --	-- -- -- --	-- 3800 107.16	-- --	-- --	-- --	11A
E0 S 811.5 207.2 CORDELIA SLOUGH AT UPPER END															
10/28/71 1040	5001 5006		10.9 94	48 9	F C	7.5 7.5	385	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	16A
11/24/71 0925	5001 5006	3	8.8 78	50 10	F C	7.6 7.8	1220	-- -- -- --	-- .00 3.61 37	220 2.20 3.61 37	-- 220 6.20 6.20 63	1.3 .02	-- --	-- --	29A
03/09/72 1010	5001 5006	3	7.0 72	63 17	F C	7.5 7.5	1860	-- -- -- --	-- -- -- --	-- -- -- --	-- 440 12.41	-- --	-- --	-- --	45A
04/07/72 0925	5001 5006	3	6.3 64	61 16	F C	7.6 7.6	1860	-- -- -- --	-- -- -- --	-- -- -- --	-- 425 11.99	-- --	-- --	-- --	50A
05/05/72 0940	5001 5006	2	6.9 71	63 17	F C	7.8 7.7	1380	-- -- -- --	-- .00 2.87 26	175 2.87 26	-- 290 8.18 74	2.2 .04	-- --	-- --	65A
06/05/72 1045	5001 5006	2	6.8 77	72 22	F C	7.5 7.5	2880	-- -- -- --	-- -- -- --	-- -- -- --	-- 730 20.59	-- --	-- --	-- --	65A
07/03/72 0900	5001 5006	3	6.2 69	70 21	F C	7.8 7.8	6800	-- -- -- --	-- -- -- --	-- -- -- --	-- 2040 57.53	-- --	-- --	-- --	50A
08/02/72 1230	5001 5006	2	7.3 78	66 19	F C	8.0 8.0	1640	-- -- -- --	-- -- -- --	-- -- -- --	-- 395 11.14	.4 .01	-- --	-- --	75A
09/15/72 0940	5001 5006	3	8.4 85	61 16	F C	7.7 7.7	704	-- -- -- --	-- -- -- --	-- -- -- --	-- 440 12.41	-- --	-- --	-- --	50A
E0 S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD															
10/28/71 1350	5001 5006		10.3 93	52 11	F C	7.4 7.4	420	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	40A
11/24/71 1245	5001 5006	3	7.7 70	52 11	F C	7.6 7.6	1720	-- -- -- --	-- .00 3.31 24	202 3.31 24	-- 365 10.29 75	3.5 .06	-- --	-- --	60A
12/13/71 1410	5001 5006	3	8.2 69	46 8	F C	7.7 7.7	2910	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	45A
01/10/72 1405	5001 5006	3	8.7 70	43 6	F C	7.5 7.5	2850	-- -- -- --	-- -- -- --	-- -- -- --	-- -- -- --	-- --	-- --	-- --	65A
02/08/72 1455	5001 5006	3	7.0 62	50 10	F C	7.4 7.4	2730	-- -- -- --	-- -- -- --	-- -- -- --	-- 690 19.46	8.0 .13	-- --	-- --	55A

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. Q	DO DEPTH	TEMP SAT	FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER			
							PERCENT REACTANCE	VALUE	B SI02	F TOS	TOS SUM	TH NCH	TURH SAW
E0 S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD													
03/09/72 1335	5001 5006		7.3 74	61 16	F C	7.3 3150	--	--	--	--	870 24.53	--	--
04/07/72 1225	5001 5006		7.7 78	61 16	F C	7.6 3430	--	--	--	--	490 13.82	--	--
05/05/72 1345	5001 5006		7.1 72	61 16	F C	7.6 7.8 3080	--	--	--	0 .00 11	181 2.97 89	-- 23.69 89	4.0 .06
06/05/72 1420	5001 5006		7.3 81	70 21	F C	7.7 5190	--	--	--	--	1500 42.30	--	--
07/03/72 1225	5001 5006		7.1 79	70 21	F C	7.9 8000	--	--	--	--	2580 72.76	--	--
08/02/72 1740	5001 5006		8.8 100	72 22	F C	8.1 12300	--	--	--	--	3920 110.54	.0 .00	--
09/15/72 1305	5001 5006		8.2 86	64 18	F C	7.7 12900	--	--	--	--	3900 109.98	--	--
E3 R 826.5 220.5 RECTOR RESERVOIR NEAR INTAKE TOWER													
07/12/72 1330	5050	55.80	8.1 102	81.0F 27.2C		8.5 125	--	--	--	--	--	--	--
07/12/72 1355	5050	55.80	8.4 101	75.9F 24.4C		8.5 120	--	--	--	--	--	--	--
07/12/72 1410	5050	55.80	3.1 31	59.6F 15.3C		6.9 110	--	--	--	--	--	--	--
07/12/72 1430	5050	55.80	4.9 44	50.0F 10.0C		6.9 105	--	--	--	--	--	--	--
07/12/72 1445	5050	55.80	4.5 70			6.8	--	--	--	--	--	--	--
07/12/72 1510	5050	55.80	4.5 38	45.7F 7.6C		6.8 105	--	--	--	--	--	--	--
08/30/72 1405	5050	49.00	8.3 101	77.7F 25.4C		8.4 131	--	--	--	--	--	--	--
08/30/72 1430	5050	49.00	3.2 37	71.9F 22.1C		7.3 131	--	--	--	--	--	--	--
08/30/72 1455	5050	49.00	0.1 1	65.1F 18.4C		6.9	--	--	--	--	--	--	--
08/30/72 1515	5050	49.00	2.7 23	47.2F 8.4C		6.8 109	--	--	--	--	--	--	--
08/30/72 1540	5050	49.00	2.7 23	46.4F 8.0C		6.7 108	--	--	--	--	--	--	--
08/30/72 1610	5050	49.00	2.6 22	46.0F 7.8C		6.6 108	--	--	--	--	--	--	--
E3 1250.00 NAPA RIVER NEAR NAPA													
11/18/71 1240	5050 5050	3.52 3.5	12.3 110	51 11	F C	8.0 8.0	380 417	28 1.40	24 2.04	21 .47	-- .91	0 3.15	192 2.1
01/06/72 1345	5050 5050	3.36 3.0	12.4 100	43 6	F C	7.6 7.7	275 305	22 1.10	14 1.16	18 .78	-- .00	0 1.98	121 .48
03/14/72 1130	5050 5050	3.29 52	10.0 100	60 16	F C	7.8 7.9	245 267	20 1.00	12 1.06	16 .70	-- .00	0 1.87	114 .39
05/11/72 1330	5050 5050	2.78 17	11.1 127	72 22	F C	8.0 8.2	310 343	22 1.10	20 1.66	21 .91	-- .00	0 2.64	161 .54
E3 2100.51 GREEN VALLEY CREEK AT CORDELIA													
12/13/71 1100	5001 5006		8.5 72	46 8	F C	7.1 C	1040	--	--	--	--	--	--
01/10/72 1040	5001 5006		12.6 101	43 6	F C	7.8 C	347	--	--	--	--	--	--
02/08/72 1025	5001 5006		12.2 108	50 10	F C	7.6 C	265	--	--	--	23 .65	4.0 .06	--

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.M. O DEPTH	DO SAT	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HC ₀₃ SO ₄ CL NO ₃	MILLIGRAMS PER LITER			MILLIEQUIVALENTS PER LITER			MILLIGRAMS PER LITER							
							PERCENT REACTANCE	VALUE	8 SiO ₂	F TDS SUM	TH NCH	TURB SAR								
E4 L 748.1 215.6 LAKE MERRITT AT BOATHOUSE DOCK																				
03/14/72 1000	5050 5050		9.3 96	63 17	F C	8.8 7.8	262 31200	799 13.07	6400 65.71278.40	125 3.20	0 .00	132 2.16	1650 34.35329.94	11700 .00	.0 .00	2.70 --	22300 21004	3940 3834	1A 44.4	
06/13/72 1115	5050 5050		5.5 64	74 23	F C	8.2 7.7	38000 38100	322 16.07	982 80.76344.52	7920 8.19	320 2	0 .00	124 2.03	2050 42.68417.36	14800 9.90	.0 .00	4.10 --	29000 26459	4840 4744	1A 49.5
09/11/72 1230	5050 5050		3.7 42	72.5F 22.5C	F C	7.8 7.5	42000 45100	354 17.66	1140 93.75408.03	9380 .15	5.8 .00	0 2.52	154 2.52	2290 47.68465.30	16500 .00	.1 .00	2.60 --	32300 29748	5570 5449	1A 54.7
F8 2100.00 NAVARRO RIVER NEAR NAVARRO																				
11/11/71 1615	5050	2.02 40	10.6 100	55.4F 13.0C	F	7.3	292	--	--	--	--	--	--	--	--	--	--	--	2A	
01/12/72 1545	5050 5050	2.39 94	11.4 96	46.4F 8.0C	F	7.3 7.6	266 234	--	--	.48	--	0 .00	112 1.84	--	7.1 .20	--	.10 --	--	94 --	1E
03/08/72 1515	5050 5050	3.64 486	10.4 96	54 12	F C	7.3	182	--	--	--	--	--	--	--	--	--	--	--	11A	
05/04/72 0830	5050 5050	2.23 91	9.9 97	58.1F 14.5C	F	7.4 7.6	222 236	--	--	.52	--	0 .00	121 1.98	--	7.7 .22	--	.20 --	--	99 --	0A
07/14/72 0730	5050	1.61 9.8	6.2 67	67.1F 19.5C	F	7.2	256	--	--	--	--	--	--	--	--	--	--	--	0A	
09/15/72 0800	5050 5050	1.57 5.2	7.0 71	60.8F 16.0C	F	7.2 7.7	261 264	--	--	.61	--	0 .00	141 2.31	--	9.9 .28	--	.30 --	--	106 --	0A
F8 2720.00 BIG RIVER NEAR MENDOCINO																				
11/11/71 1500	5050	7.10 20	10.4 95	52.7F 11.5C	F	7.2	208	--	--	--	--	--	--	--	--	--	--	--	0A	
01/12/72 1445	5050 5050	7.20 30	11.5 95	44.6F 7.0C	F	7.1 7.2	184 141	--	--	8.4 .37	--	0 .00	60 .98	--	8.6 .24	--	.10 --	--	49 --	2E
03/08/72 1515	5050 5050	8.85 250	10.5 97	53.2F 11.8C	F	7.2 7.5	133 134	12 .60	4.5 .37	7.2 .31	.9 .02	0 .00	65 1.07	4.4 .09	4.7 .13	.0 .00	--	71 66	50 0	12A 0.5
05/04/72 0720	5050 5050	7.48 35	10.1 98	57.2F 14.0C	F	7.4 8.0	251 181	18 .90	6.3 .52	11 .48	1.1 .03	0 .00	92 1.51	7.2 .82	6.4 .15	.1 .00	.10 --	120 95	71 0	0A 0.6
07/13/72 1430	5050		8.5 15	73 98	F C	7.4 7.3	198	--	--	--	--	--	--	--	--	--	--	--	0A	
09/14/72 1430	5050 5050	8.5 8.5	9.2 95	62.6F 17.0C	F	7.4 7.8	192 206	--	--	13 .57	--	0 .00	107 1.75	--	8.3 .23	--	.40 --	--	79 --	0A
F8 3100.00 NOYO RIVER NEAR FORT BRAGG																				
11/11/71 1400	5050		9.7 18	53.6F 9.0	F	7.1 12.0C	166	--	--	--	--	--	--	--	--	--	--	--	44A	
01/12/72 1350	5050		12.4 34	48.2F 107	F	7.1 9.0C	155	--	--	--	--	--	--	--	--	--	--	--	1A	
03/08/72 1430	5050 5050	10.5 303	9.7	53.6F 12.0C	F	7.1 7.6	110	9.9 .49	3.1 .25	7.2 .31	.9 .02	0 .00	51 81	3.0 .06	5.0 .14	.3 .00	.00 --	63 54	37 0	9A 0.5
05/03/72 1400	5050 5050	10.4 56	10.3	59.0F 15.0C	F	7.3 7.3	136 139	--	--	9.0 .39	--	0 .00	67 1.10	--	6.9 .19	--	.20 --	--	50 --	1A
07/13/72 1300	5050	2.87 13	9.7 108	70 21	F C	7.3 7.1	159	--	--	--	--	--	--	--	--	--	--	--	0A	
09/14/72 1315	5050	3.10 3.3	9.3 92	59 15	F C	7.2 7.0	162	--	--	--	--	--	--	--	--	--	--	--	0A	
F9 1100.00 RUSSIAN RIVER NEAR GUERNEVILLE																				
10/21/71 1200	5050	4.98 98	9.9 98	59 15	F C	7.7 C	275	--	--	--	--	--	--	--	--	--	--	--	--	
11/18/71 1030	5050	4.95 1030	10.3 92	51 11	F C	7.6 C	310	--	--	--	--	--	--	--	--	--	--	--	--	
12/14/71 1100	5050 840	6.77 90	11.1 7	44 C	F C	7.3 7.5	205 212	16 .80	11 .45	9.4 .19	--	0 .00	92 1.51	--	9.5 .27	--	--	--	89 14	360E 0.4
01/06/72 1030	5050	5.77 89	11.1 6	43 C	F C	7.3 7.0	275	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE D-2 (CONTINUED)
MINERAL ANALYSES OF SURFACE WATER

DATE TIME	SAMPLER LAB	G.H. O	DO DEPTH	TEMP LABORATORY PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ 504 CL NO ₃	MILLIGRAMS PER LITER			MILLIGRAMS PER LITER				
							PERCENT REACTANCE VALUE	MILLIEQUIVALENTS PER LITER	B F TOS SUM NCH TURB SI0 ₂ SAR					
		F9	1100.00			RUSSIAN RIVER NEAR GUERNEVILLE			CONTINUED					
02/15/72 1230	5050	6.93	10.4 92	50 10	F C	7.3 240	-- -- -- -- --	-- -- -- -- --	-- -- -- -- --	-- --	-- --	-- --		
03/14/72 1345	5050 5050	7.02	9.3 93	60 16	F C	7.4 235	24 1.20	13 1.08	9.6 .42	6.0 .20	130 2.13	-- .19	-- --	114 0 5A 0.4
05/11/72 1015	5050	5.11	8.3 89	66 19	F C	7.7 285	-- -- -- -- --	-- -- -- -- --	-- -- -- -- --	-- --	-- --	-- --	-- --	
06/12/72 0815	5050 5050	4.65	8.7 94	67 19	F C	7.7 280	27 1.35	15 1.25	14 .61	0 .00	157 2.57	-- .34	-- --	130 2 4A 0.5
07/12/72 1300	5050	4.36	9.2 111	78 26	F C	7.9 240	-- -- -- -- --	-- -- -- -- --	-- -- -- -- --	-- --	-- --	-- --	-- --	
08/10/72 1300	5050	4.41	8.9 107	77 25	F C	7.8 238	-- -- -- -- --	-- -- -- -- --	-- -- -- -- --	-- --	-- --	-- --	-- --	
09/08/72 1300	5050 5050	4.46	8.6 162	71 97	F C	7.5 240	23 1.15	13 1.13	11 .48	0 .00	134 2.20	-- .25	-- --	114 4 3A 0.4

TABLE D-3
MINOR ELEMENT ANALYSIS OF SURFACE WATER

Lab and Sampler Agency Codes

- 5001 - U. S. Bureau of Reclamation
- 5006 - McClellan Air Force Base Laboratory*
- 5050 - Department of Water Resources

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
- DISCH - Instantaneous discharge in cubic feet per second
- EC - Electrical conductance in micromhos at 25° Celsius
- TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
- PH - Measure of acidity (<7) or alkalinity (>7) of water
- CHROM (ALL) - All chromium
- CHROM (HEX) - Hexavalent chromium
- D - Dissolved
- T - Total

*When the testing laboratory is 5006 (McClellan Air Force Base) and the various constituents have a value equal to that shown in the following tabulation, the actual value is less than twice the printed value.

<u>Constituent</u>	<u>Printed Value</u>	<u>Actual Value</u>
Cadmium	0.005	<0.01
Chromium	0.005	<0.01
Copper	0.025	<0.05
Iron	0.050	<0.10
Lead	0.005	<0.01
Manganese	0.025	<0.05
Zinc	0.005	<0.01

TABLE D-3 (CONTINUED)
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	CONSTITUENTS IN MILLIGRAMS PER LITER						LEAD HANGANESE	MERCURY SELENIUM	SILVER ZINC				
					ARSENIC	BARIUM	CADMIUM	CHROM (ALL)	CHROM (HEX)	COPPER IRON							
			D1	1003.20	WATSONVILLE SLOUGH NEAR MOUTH AT SHELL ROAD												
8/23/72 1115	5050 5050			5600	74 F 8.2	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D1	1075.30	PAJARO RIVER AT THURWACHTER ROAD												
4/25/72 1515	5050 5050			8000	67 F 8.5	0.00	D	0.00	D	0.00	D	0.00	D	.0002 T	--		
5/23/72 1250	5050 5050			6000	67 F 8.7	0.00	D	0.00	D	--	--	0.00	D	.0001 T	--		
8/23/72 1045	5050 5050			13500	80 F 8.5	0.00	D	0.00	D	--	--	0.01	D	.0000 T	--		
			D1	1110.20	SALSIPUEDES CREEK AT RIVERSIDE ROAD												
8/23/72 1225	5050 5050			900	82 F 8.4	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D1	1250.00	PAJARO RIVER AT CHITTENDEN												
8/23/72 1305	5050 5050			2200	72 F 8.2	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1006.30	TEMBLADERO SLOUGH AT MOLERA ROAD												
4/25/72 1415	5050 5050			1400	66 F 7.9	0.00	D	0.00	D	0.00	D	0.00	D	--	--	--	
5/23/72 1145	5050 5050			3200	56 F 8.8	0.00	D	0.00	D	--	--	0.01	D	.0001 T	--		
8/23/72 0920	5050 5050			2700	70 F 8.4	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1006.50	OLD SALINAS RIVER ABOVE TEMBLADERO SLOUGH												
4/25/72 1430	5050 5050			1400	72 F 8.5	0.00	D	0.00	D	0.00	D	0.00	D	.0001 T	--		
5/23/72 1215	5050 5050			3200	61 F 8.9	0.00	D	0.00	D	--	--	0.01	D	.0001 T	--		
8/23/72 1000	5050 5050			2600	70 F 8.7	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1006.60	MERRITT LAKE DRAIN AT PUMP												
8/23/72 0850	5050 5050			0.0	67 F 8.4	0.01	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1009.20	SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH												
8/23/72 0800	5050 5050			2025	66 F 7.7	0.01	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1020.70	SALINAS RECLAMATION CANAL AT AIRPORT WAY												
4/25/72 0850	5050 5050			550	58 F 8.2	0.00	D	0.00	D	0.00	D	0.00	D	.0002 T	--		
5/23/72 0722	5050 5050			1.0	56 F 8.5	0.00	D	0.00	D	--	--	0.02	D	.0000 T	--		
8/22/72 0740	5050 5050			750	66 F 8.2	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1030.30	BLANCO DRAIN AT PUMP LIFT												
4/25/72 1345	5050 5050			2350	75 F 8.3	0.00	D	0.00	D	0.00	D	0.00	D	.0000 T	--		
5/23/72 0930	5050 5050			2300	55 F 8.0	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
8/22/72 1225	5050 5050			2200	79 F 8.9	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1110.50	SALINAS RIVER AT TWIN BRIDGES												
11/04/71 0700	5050 5050			1750	53 F 7.2	0.00	D	0.00	D	0.00	T	0.00	D	.0000 T	0.00	D	--
4/25/72 1015	5050 5050			1330	59 F 8.4	0.00	D	0.00	D	0.00	D	0.00	D	.0001 T	--		
5/23/72 1000	5050 5050			1900	19 C 9.0	0.00	D	0.00	D	--	--	0.03	D	.0003 T	--		
8/22/72 1300	5050 5050			1700	75 F 9.0	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		
			D2	1110.70	SALINAS RIVER 1.9 MILES ABOVE HIGHWAY 1 BRIDGE												
11/04/71 0615	5050 5050			1650	51 F 7.2	0.00	D	0.00	D	0.00	T	0.01	D	.0000 T	0.00	D	--
			D2	1120.50	SALINAS RIVER AT BLANCO DRAIN												
11/04/71 0850	5050 5050			1500	50 F 7.2	0.00	D	0.00	D	0.00	T	0.00	D	.0000 T	0.00	D	--
			D2	1150.30	SALINAS RIVER AT BLANCO ROAD												
11/04/71 0745	5050 5050			1580	18.1 F 7.3	0.00	D	0.00	D	--	--	0.01	D	.0000 T	0.00	D	--
8/22/72 1200	5050 5050			1600	78 F 7.6	0.00	D	0.00	D	--	--	0.00	D	.0000 T	--		

TABLE D-3 (CONTINUED)
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER						LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC	
						BARIUM	Cadmium	Chrom (All)	Chrom (Hex)	Copper	Iron				
D2 1160.20 SALINAS RIVER AT DAVIS ROAD															
11/04/71 0820	5050 5050	6.8 1500	53 F 7.4	0.00	D	--	0.00	T	0.01	D	0.01	D	.0001 T	0.00 D	-- D
8/22/72 1010	5050 5050	78 1480	F 7.3	0.00	D	--	0.00	D	--	--	0.01	D	--	.0000 T	--
D2 1185.20 EL TORO CREEK NEAR SAN BENANCIO BRIDGE															
8/22/72 1440	5050 5050	85 2400	F 9.2	0.00	D	--	0.00	D	--	--	0.00	D	.0000 T	--	--
D2 1325.10 SALINAS RIVER NEAR GONZALES															
4/25/72 1220	5050 5050	67 475	F 8.2	0.00	D	--	--	D	--	--	0.00	D	.0000 T	--	--
5/23/72 0815	5050 5050	55 400	F 8.5	0.00	D	--	0.00	D	--	--	0.00	D	.0000 T	--	--
8/22/72 0835	5050 5050	69 400	F 8.4	0.00	D	--	0.00	D	--	--	0.00	D	.0000 T	--	--
E0 8 801.8 222.3 SAN PABLO BAY NEAR PINOLE POINT															
3/09/72 0900	5001 5006	13 3	C 8.2	--		--	0.02	T	0.005	D	0.025	T	--	0.025 D	--
5/09/72 1150	5001 5006	15 3	C 7.9	--		--	0.005	T	0.005	D	0.025	T	0.11	T	--
6/07/72 1220	5001 5006	16 3	C 8.0	--		--	0.03	T	0.005	D	0.025	T	0.05	D	--
7/07/72 1400	5001 5006	20 3	C 8.0	--		--	0.02	T	0.005	D	0.10	D	--	--	0.005 T
8/07/72 1410	5001 5006	19 3	C 7.8	--		--	--	--	0.005	D	0.10	D	--	--	--
E0 8 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND															
11/17/71 1505	5001 5006	12 3	C 7.6	--		--	0.005	T	0.01	D	0.025	T	0.005	T	--
1/10/72 1340	5001 5006	6 3	C 7.5	--		--	0.005	T	0.005	D	0.025	T	0.005	T	--
3/09/72 1100	5001 5006	14 3	C 7.8	--		--	0.005	T	0.005	D	0.025	T	0.005	T	--
5/22/72 1430	5001 5006	19 3	C 7.8	--		--	0.005	T	0.005	D	0.025	T	0.025	D	--
6/07/72 1420	5001 5006	19 3	C 8.3	--		--	0.005	T	0.005	D	0.050	D	0.025	D	--
7/07/72 1630	5001 5006	21 3	C 8.1	--		--	--	--	0.005	D	0.050	D	--	--	0.005 T
8/07/72 1600	5001 5006	21 3	C 8.0	--		--	--	--	0.005	D	0.050	D	0.025	D	--
9/20/72 1525	5001 5006	20 3	C 7.8	--		--	0.005	T	0.005	D	0.10	D	0.01	T	--
E0 8 804.0 203.0 SUISEN BAY NEAR PRESTON POINT															
11/17/71 1445	5001 5006	6 3	C 7.6	--		--	0.005	T	0.005	D	0.025	T	0.005	T	--
1/10/72 1305	5001 5006	6 3	C 7.5	--		--	0.01	T	0.005	D	0.025	T	0.02	T	--
3/09/72 1040	5001 5006	6 3	C 7.8	--		--	0.005	T	0.005	D	0.025	T	0.06	T	--
5/22/72 1310	5001 5006	19 3	C 8.2	--		--	0.005	T	0.005	D	0.050	D	0.025	D	--
6/07/72 1335	5001 5006	6 --	C --	--		--	0.005	T	0.005	D	0.050	D	--	--	0.02 T
7/07/72 1600	5001 5006	22 --	C --	--		--	0.005	D	0.050	D	0.05	D	--	--	--
8/07/72 1540	5001 5006	22 3	C --	--		--	0.005	D	0.050	D	--	--	--	--	--
9/20/72 1425	5001 5006	19 3	C 7.8	--		--	--	--	0.005	D	0.10	D	0.025	D	--
E0 8 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISEN SLough															
11/16/71 1150	5001 5006	13 3	C 7.3	--		--	0.005	T	0.005	D	0.025	T	0.005	T	--
1/10/72 1145	5001 5006	6 3	C 7.7	--		--	0.005	T	0.005	D	0.025	T	0.03	T	--
3/08/72 0810	5001 5006	14 3	C 7.6	--		--	0.005	T	0.005	D	0.025	T	0.01	T	--
5/22/72 1145	5001 5006	18 3	C 8.0	--		--	0.005	T	0.005	D	0.050	D	--	--	--
6/06/72 1100	5001 5006	19 3	C 8.1	--		--	0.005	T	--	--	0.025	T	--	--	0.02 T
7/06/72 1240	5001 5006	20 3	C 8.1	--		--	--	--	0.005	D	0.050	D	--	--	0.005 T

TABLE D-3 (CONTINUED)
MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP	LAB	DEPTH	DISCH EC	TEMP PH	ARSENIC	CONSTITUENTS IN MILLIGRAMS PER LITER						LEAD MANGANESE	MERCURY SELENIUM	SILVER ZINC
							BARIUM	CADMIUM	CHROM. (ALL)	CHROM (HEX)	COPPER	IRON			
E0 8 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH															
8/03/72 1130	5001 5006		3		20 C 8.3	--	--	--	0.005	D	0.050	D	--	--	--
9/20/72 1315	5001 5006		3		19 C 7.5	--	--	--	0.005	D	0.10	D	0.025	D	--
E3 R 826.5 220.5 RECTOR RESERVOIR NEAR INTAKE TOWER															
7/12/72 1330	5050 5050	1	125		81.0F 8.5	--	--	--	--	T	0.01	T	--	--	--
7/12/72 1355	5050 5050	15	120		75.9F 8.5	--	--	--	--	T	0.01	T	--	--	--
7/12/72 1410	5050 5050	27	110		59.6F 6.9	--	--	--	--	T	0.01	T	--	--	--
7/12/72 1430	5050 5050	37	105		50.0F 6.9	--	--	--	--	T	0.01	T	--	--	--
7/12/72 1445	5050 5050	70			6.8	--	--	--	--	T	0.10	T	--	--	--
7/12/72 1510	5050 5050	95	105		45.7F 6.8	--	--	--	--	T	0.20	T	--	--	--
8/30/72 1405	5050 5050	1	131		77.7F 8.4	--	--	--	--	T	0.10	T	--	--	--
8/30/72 1430	5050 5050	23	131		71.9F 7.3	--	--	--	--	T	0.09	T	--	--	--
8/30/72 1455	5050 5050	30			65.1F 6.9	--	--	--	--	T	0.14	T	0.23	T	--
8/30/72 1515	5050 5050	50	109		47.2F 6.8	--	--	--	--	T	0.15	T	0.06	T	--
8/30/72 1540	5050 5050	70	108		46.4F 6.7	--	--	--	--	T	0.21	T	0.13	T	--
8/30/72 1610	5050 5050	85	108		46.0F 6.6	--	--	--	--	T	0.25	T	0.22	T	--
FR 3100.00 NOYO RIVER NEAR FORT BRAGG															
5/03/72 1400	5050 5050		56.0 136		15.0C 7.3	--	0.00	T	--	--	0.01	T	0.01	T	--
											0.24	T	0.01	T	0.01 T

TABLE D-4
SUPPLEMENTAL MINOR ELEMENT ANALYSIS
OF SURFACE WATER

Lab and Sampler Agency Codes

- 5001 - U. S. Bureau of Reclamation
5006 - McClellan Air Force Base Laboratory
5050 - Department of Water Resources

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
DEPTH - Depth in feet at which sample was collected
DISCH - Instantaneous discharge in cubic feet per second
EC - Electrical conductance in micromhos at 25° Celsius
TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) and Celsius (C)
PH - Measure of acidity (<7) or alkalinity (>7) of water
D - Dissolved
T - Total

TABLE D-4 (CONTINUED)
SUPPLEMENTAL MINOR ELEMENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	DEPTH	DISCH EC	TEMP PH	ALUMINUM	CONSTITUENTS IN MILLIGRAMS PER LITER						NICKEL STRONTIUM	TITANIUM VANADIUM				
						ANTIMONY	BERYLLIUM	BISMUTH	COBALT	GALLIUM	GERMANIUM						
		D1	1075.30	-	PAJARO RIVER AT THURWACHTER ROAD												
4/25/72 1515	5050 5050			67 F 8.5	--	--	--	--	--	--	--	.0067	D	--	--	--	
		D2	1006.30	-	TEMBLADERO SLOUGH AT MOLERA ROAD												
4/25/72 1415	5050 5050			66 F 7.9	--	--	--	--	--	--	--	.014	D	--	--	--	
		D2	1006.50	-	OLD SALINAS RIVER ABOVE TEMBLADERO SLOUGH												
4/25/72 1430	5050 5050			72 F 8.5	--	--	--	--	--	--	--	.022	D	--	--	--	
		D2	1020.70	-	SALINAS RECLAMATION CANAL AT AIRPORT WAY												
4/25/72 0850	5050 5050			58 F 8.2	--	--	--	--	--	--	--	.0072	D	--	--	--	
		D2	1030.30	-	BLANCO DRAIN AT PUMP LIFT												
4/25/72 1345	5050 5050			75 F 8.3	--	--	--	--	--	--	--	.146	D	--	--	--	
		D2	1110.50	-	SALINAS RIVER AT TWIN BRIDGES												
11/04/71 0700	5050 5050			53 F 7.2	--	--	--	--	--	--	--	.023	D	--	--	--	
4/25/72 1015	5050 5050			59 F 8.4	--	--	--	--	--	--	--	.028	D	--	--	--	
		D2	1110.70	-	SALINAS RIVER 1.9 MILES ABOVE HIGHWAY 1 BRIDGE												
11/04/71 0615	5050 5050			51 F 7.2	--	--	--	--	--	--	--	.021	D	--	--	--	
		D2	1120.50	-	SALINAS RIVER AT BLANCO DRAIN												
11/04/71 0850	5050 5050			50 F 7.2	--	--	--	--	--	--	--	.011	D	--	--	--	
		D2	1150.30	-	SALINAS RIVER AT BLANCO ROAD												
11/04/71 0745	5050 5050			18.1 F 7.3	--	--	--	--	--	--	--	.010	D	--	--	--	
		D2	1160.20	-	SALINAS RIVER AT DAVIS ROAD												
11/04/71 0820	5050 5050			6.8 F 7.4	--	--	--	--	--	--	--	.019	D	--	--	--	
		D2	1325.10	-	SALINAS RIVER NEAR GONZALES												
4/25/72 1220	5050 5050			67 F 8.2	--	--	--	--	--	--	--	.0061	D	--	--	--	

TABLE D-5
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

Lab and Sampler Agency Codes

- 5001 - U. S. Bureau of Reclamation
- 5050 - Department of Water Resources
- 5063 - Santa Cruz County Health Department

Abbreviations

- TIME - Pacific Standard Time on a 24-hour clock
- TEMP - Water temperature at time of sampling in degrees Fahrenheit (F) or Celsius (C)
- EC - Electrical conductance in micromhos at 25° Celsius
- PH - Measure of acidity (<7) or alkalinity (>7) of water: F - Field; L - Lab
- DO - Dissolved oxygen content in milligrams per liter
- G.H. - Instantaneous gage height in feet above an established datum
- DISCHARGE - Instantaneous discharge in cubic feet per second
- MBAS - Methylene blue active substance (a test for detergent surfactants) in milligrams per liter: L - Linear alkylate sulfonate; A - Alkyl benzene sulfonate
- T+L - Tannin and lignin as tannic acid in milligrams per liter
- CHLOR - Field determination of residual chlorine in milligrams per liter
- O+G - Oil and grease in milligrams per liter
- COLOR - True color in color units
- SET S - Settleable solids in milliliters per liter (ML/L) and milligrams per liter (MG/L): F - Field; L - Lab
- BOD - Biochemical oxygen demand in milligrams per liter: A - 4 days; B - 5 days; C - 6 days; D - 7 days; E - 100 days; F - other
- SUS S - Suspended solids in milligrams per liter: 5 - at 105°C; 8 - at 108°C
- COD - Chemical oxygen demand in milligrams per liter
- V SUS S - Volatile suspended solids in milligrams per liter
- TOC - Total organic carbon in milligrams per liter
- DOC - Dissolved organic carbon in milligrams per liter
- T ODOR - Threshold odor number at 60°C
- T SULF - Total sulfides in milligrams per liter
- D SULF - Dissolved sulfides in milligrams per liter

Other Constituents

- CYANIDE - Cyanide in milligrams per liter
- PHENOLS - Phenols in milligrams per liter
- IODIDE - Iodide in milligrams per liter
- BROMIDE - Bromide in milligrams per liter
- SULFITE - Sulfite in milligrams per liter

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	TEMP EC	SAMP LAB	F-PH L-PM	DO G.M.	DISCHARGE MBAS	T+L CHLOR	O+G COLOR	SET S ML/L MG/L	BOD			COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE	SULFITE	T D SULF
									SUS S	V SUS S	CYANIDE PHENOLS							
00 1100.00 BRANCIFORTE CREEK AT SANTA CRUZ																		
3/21/72 1200	54 F 450	5063 5050	7.5	11.0		0.0 A	--	--	--	3 5	--	--	--	--	--	--	--	--
9/11/72 1030	68 F 310	5063 5050	7.3	9.5		0.0 A	--	--	--	209 5	--	--	--	--	--	--	--	--
00 1180.01 SAN LORENZO RIVER AT PARADISE PARK																		
3/21/72 1445	59 F 390	5063 5050	7.8	11.5		0.0 A	--	--	--	3 5	--	--	--	--	--	--	--	--
9/11/72 1200	70 F 400	5063 5050	8.0	8.0		0.0 A	--	--	--	8 5	--	--	--	--	--	--	--	--
00 1220.01 ZAYANTE CREEK AT FELTON																		
3/21/72 1410	58 F 420	5063 5050	7.8	10.5		0.0 A	--	--	--	6 5	--	--	--	--	--	--	--	--
9/11/72 1300	60 F 470	5063 5050	8.0	9.5		0.0 A	--	--	--	6 5	--	--	--	--	--	--	--	--
00 1498.01 SAN LORENZO RIVER AT BOULDER CREEK																		
3/21/72 1010	52 F 480	5063 5050	7.5	10.0		0.0 A	--	--	--	2 5	--	--	--	--	--	--	--	--
9/11/72 1500	60 F 515	5063 5050	7.8	8.5		0.0 A	--	--	--	4 5	--	--	--	--	--	--	--	--
00 2020.00 APTOS CREEK BELOW VALENCIA CREEK																		
3/21/72 1330	56 F 760	5063 5050	8.0	10.5		0.0 A	--	--	--	22 5	--	--	--	--	--	--	--	--
9/11/72 1130	62 F 910	5063 5050	8.2	10.0		0.0 A	--	--	--	2 5	--	--	--	--	--	--	--	--
00 3100.00 SOQUEL CREEK AT SOQUEL																		
3/21/72 1300	62 F 780	5063 5050	7.8	10.0		0.0 A	--	--	--	2 5	--	--	--	--	--	--	--	--
9/11/72 1100	66 F 700	5063 5050	7.8	10.5	2.5	0.0 A	--	--	--	83 5	--	--	--	--	--	--	--	--
00 4010.01 SCOTT CREEK AT HIGHWAY 1																		
3/21/72 0905	54 F 405	5063 5050	7.1	9.5		0.0 A	--	--	--	1 5	--	--	--	--	--	--	--	--
9/11/72 0930	64 F 4000	5063 5050	7.9	7.0		0.0 A	--	--	--	34 5	--	--	--	--	--	--	--	--
D1 1075.30 PAJARO RIVER AT THURWACHTER ROAD																		
4/25/72 1515	67 F 8000	5050 5050	8.5	31.7		--	--	--	--	19 8	70	--	--	23	--	--	--	--
D2 1006.30 TEMBLADERO SLOUGH AT MOLERA ROAD																		
4/25/72 1415	66 F 1400	5050 5050	7.9	4.3		--	--	--	--	24 8	35	--	--	19	--	--	--	--
D2 1006.50 OLD SALINAS RIVER ABOVE TEMBLADERO SLOUGH																		
4/25/72 1430	72 F 1400	5050 5050	8.5	15.3		--	--	--	--	24	60	--	--	17	--	--	--	--
D2 1020.70 SALINAS RECLAMATION CANAL AT AIRPORT WAY																		
4/25/72 0850	58 F 550	5050 5050	8.2	11.3		--	--	--	--	4.7 8	16	--	--	5	--	--	--	--
D2 1030.30 BLANCO DRAIN AT PUMP LIFT																		
4/25/72 1345	75 F 2350	5050 5050	8.3	13.3		--	--	--	--	3.8 8	10	--	--	10	--	--	--	--
D2 1110.50 SALINAS RIVER AT TWIN BRIDGES																		
11/04/71 0700	53 F 1750	5050 5050	7.2	11.4		--	--	--	--	18 8	43	--	--	--	--	--	--	--
4/25/72 1015	59 F 1330	5050 5050	8.4	12.0		--	--	--	--	20	30	--	--	14	--	--	--	--
D2 1110.70 SALINAS RIVER 1.9 MILES ABOVE HIGHWAY 1 BRIDGE																		
11/04/71 0615	51 F 1650	5050 5050	7.2	4.8		--	--	--	--	13 8	55	--	--	--	--	--	--	--
D2 1120.50 SALINAS RIVER AT BLANCO DRAIN																		
11/04/71 0850	50 F 1500	5050 5050	7.2	3.6		--	--	--	--	14 8	47	--	--	--	--	--	--	--
D2 1150.30 SALINAS RIVER AT BLANCO ROAD																		
11/04/71 0745	50 F 1580	5050 5050	7.3	1.8	18.1	--	--	--	--	14 8	53	--	--	--	--	--	--	--
D2 1160.20 SALINAS RIVER AT DAVIS ROAD																		
11/04/71 0820	53 F 1500	5050 5050	7.4	7.0	6.8	--	--	--	--	15 8	49	--	--	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	TEMP EC	SAMP LAB	F-PH L-PH	DO G.M.	DISCHARGE MBAS	T+L CHLDR	O+G COLOR	SET 5											
								ML/L MG/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T DODR	BROMIDE SULFITE	T D SULF				
		D2	1325.10					SALINAS RIVER NEAR GONZALES											
4/25/72 1220	67 F 475	5050 5050	8.2	11.7	--	--	--	--	--	1.3 8	4	--	4	--	--	--	--	--	--
		E0 8	735.0	215.0				SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)											
11/24/71 1230	53.5F 44000	5050 5050	8.0	8.2	--	--	--	--	--	--	9 5	--	--	--	--	--	--	--	--
12/21/71 0945	47.5F 41000	5050 5050	8.0	8.5	--	--	--	--	--	12 5	--	--	--	--	--	--	--	--	--
1/24/72 1430	49 F 40000	5050 5050	7.9	8.7	--	--	--	--	--	82 5	--	--	--	--	--	--	--	--	--
2/17/72 0850	51.5F 39000	5050 5050	8.2	9.2	--	--	--	--	--	11 5	--	--	--	--	--	--	--	--	--
3/20/72 1230	60 F 36000	5050 5050	8.8	7.9	--	--	--	--	--	13 5	--	--	--	--	--	--	--	--	--
4/18/72 1130	56 F 39000	5050 5050	8.0	7.9	--	--	--	--	--	39 5	--	--	--	--	--	--	--	--	--
5/16/72 1045	66 F 39000	5050 5050	8.1	7.3	--	--	--	--	--	41 5	--	--	--	--	--	--	--	--	--
6/13/72 0915	65 F 40000	5050 5050	8.0	6.9	--	--	--	--	--	9 5	--	--	--	--	--	--	--	--	--
7/11/72 0900	70 F 44000	5050 5050	8.1	7.0	--	--	--	--	--	12 5	--	--	--	--	--	--	--	--	--
8/09/72 0800	70 F 44000	5050 5050	8.0	6.4	--	--	--	--	--	2 5	--	--	--	--	--	--	--	--	--
9/11/72 1000	69 F 44000	5050 5050	7.9	6.7	--	--	--	--	--	6 5	--	--	--	--	--	--	--	--	--
		E0 8	736.2	212.0				SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)											
10/26/71 1430	58.5F 42500	5050 5050	8.4	10.7	--	--	--	--	--	11 5	--	--	--	--	--	--	--	--	--
11/24/71 1345	54 F 48000	5050 5050	8.0	8.1	--	--	--	--	--	15 5	--	--	--	--	--	--	--	--	--
12/21/71 1030	47 F 41000	5050 5050	7.9	8.3	--	--	--	--	--	24 5	--	--	--	--	--	--	--	--	--
1/24/72 1515	49 F 40000	5050 5050	8.0	9.7	--	--	--	--	--	58 5	--	--	--	--	--	--	--	--	--
2/17/72 0950	51.5F 39000	5050 5050	8.2	9.1	--	--	--	--	--	8 5	--	--	--	--	--	--	--	--	--
3/20/72 1330	60 F 38000	5050 5050	8.7	6.5	--	--	--	--	--	13 5	--	--	--	--	--	--	--	--	--
4/18/72 1215	58 F 38500	5050 5050	8.2	8.6	--	--	--	--	--	34 5	--	--	--	--	--	--	--	--	--
5/16/72 1145	68 F 38000	5050 5050	8.2	10.6	--	--	--	--	--	43 5	--	--	--	--	--	--	--	--	--
6/13/72 0945	68 F 43000	5050 5050	8.0	7.0	--	--	--	--	--	57 5	--	--	--	--	--	--	--	--	--
7/11/72 0930	68 F 43000	5050 5050	8.2	7.3	--	--	--	--	--	18 5	--	--	--	--	--	--	--	--	--
8/09/72 0845	70 F 45000	5050 5050	8.1	6.4	--	--	--	--	--	32 5	--	--	--	--	--	--	--	--	--
9/11/72 1100	68 F 45000	5050 5050	8.2	8.2	--	--	--	--	--	9 5	--	--	--	--	--	--	--	--	--
		E0 8	749.2	222.4				SAN FRANCISCO BAY AT TREASURE ISLAND											
10/26/71 1115	57.5F 40000	5050 5050	8.0	7.6	--	--	--	--	--	--	9 5	--	--	--	--	--	--	--	--
11/24/71 1045	53 F 49000	5050 5050	7.8	7.5	--	--	--	--	--	--	8 5	--	--	--	--	--	--	--	--
12/21/71 0830	48 F 41000	5050 5050	7.7	7.4	--	--	--	--	--	11 5	--	--	--	--	--	--	--	--	--
1/24/72 1245	49 F 40000	5050 5050	8.0	8.7	--	--	--	--	--	80 5	--	--	--	--	--	--	--	--	--
2/17/72 0750	50 F 39000	5050 5050	8.2	8.5	--	--	--	--	--	17 5	--	--	--	--	--	--	--	--	--
3/20/72 1045	57 F 39000	5050 5050	8.2	7.6	--	--	--	--	--	12 5	--	--	--	--	--	--	--	--	--
4/18/72 1015	55 F 42000	5050 5050	8.0	7.3	--	--	--	--	--	14 5	--	--	--	--	--	--	--	--	--
5/16/72 0950	60 F 42000	5050 5050	7.8	6.8	--	--	--	--	--	25 5	--	--	--	--	--	--	--	--	--
6/13/72 0800	62 F 43000	5050 5050	8.0	7.6	--	--	--	--	--	14 5	--	--	--	--	--	--	--	--	--
7/11/72 0730	65 F 45000	5050 5050	8.1	6.8	--	--	--	--	--	10 5	--	--	--	--	--	--	--	--	--
8/09/72 0645	63.5F 45000	5050 5050	8.0	7.0	--	--	--	--	--	5 5	--	--	--	--	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	TEMP EC	SAMP LAB	F-PH L-PH	DO G.H.	DISCHARGE MBAS	T+L CHLOR	O+G COLOR	SET S ML/L SUS	BOD MG/L SUS	COD V SUS	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOR	BROMIDE SULFITE	T D	SULF SULF
E0 B 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND																
CONTINUED																
9/11/72 0915	64 F 44000	5050 5050	8.0	6.9	--	--	--	--	6 5	--	--	--	--	--	--	--
E0 B 801.8 222.3 SAN PABLO BAY NEAR PINOLE POINT																
11/17/71 1305	13 C 5001	5001	7.7	9.6	--	--	--	--	0.9 0 5 5	--	--	--	--	--	--	--
3/09/72 0900	13 C 5001	5001	8.2	8.9	--	--	--	--	5 5	--	--	--	--	--	--	--
4/10/72 1305	14 C 5001	5001	7.8	9.0	--	--	--	--	12 5	1	--	--	--	--	--	--
5/09/72 1150	15 C 5001	5001	7.9	8.7	--	--	--	--	14 5	4	--	--	--	--	--	--
6/07/72 1220	16 C 5001	5001	8.0	8.5	--	--	--	--	206 5	50	--	--	--	--	--	--
7/07/72 1400	20 C 5001	5001	8.0	7.9	--	--	--	--	1.5 0 21 5	4	--	--	--	--	--	--
9/07/72 1515	20 C 5001	5001	7.8	7.6	--	--	--	--	1.1 0	--	--	--	--	--	--	--
E0 B 802.3 207.1 SUISUN BAY OFF BULLS HEAD POINT																
10/26/71 1045	16 C 5001	5001	7.7	9.0	--	--	--	--	0.8 0 60 5	--	--	--	--	--	--	--
11/17/71 1415	12 C 5001	5001	7.6	11.0	--	--	--	--	0.8 D 7 5	0	--	--	--	--	--	--
12/13/71 1245	10 C 5001	5001	7.7L	1	--	--	--	--	1.0 D 42 5	--	--	--	--	--	--	--
1/10/72 1235	7 C 5001	5001	7.6	11.7	--	--	--	--	1.3 F 11 5	2	--	--	--	--	--	--
2/11/72 1245	9 C 5001	5001	7.5	9.2	--	--	--	--	1.1 D 19 5	12	--	--	--	--	--	--
3/22/72 0905	15 C 5001	5001	7.8	9.8	--	--	--	--	24 5	2	--	--	--	--	--	--
4/24/72 1330	16 C 5001	5001	7.9	9.2	--	--	--	--	14 5	2	--	--	--	--	--	--
5/22/72 1240	18 C 5001	5001	7.9	9.3	--	--	--	--	115 5	43	--	--	--	--	--	--
6/20/72 1205	19 C 5001	5001	8.1	8.2	--	--	--	--	7 5	0	--	--	--	--	--	--
7/19/72 1135	20 C 5001	5001	8.0	7.8	--	--	--	--	1.0 B 17 5	0	--	--	--	--	--	--
9/20/72 1400	20 C 5001	5001	7.9	8.9	--	--	--	--	2.1 0	--	--	--	--	--	--	--
E0 B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND																
10/26/71 1225	16 C 5001	5001	7.6	9.4	--	--	--	--	1.1 0 17 5	2	--	--	--	--	--	--
11/17/71 1505	12 C 5001	5001	7.6	10.4	--	--	--	--	0.8 0 35 5	0	--	--	--	--	--	--
12/13/71 1340	10 C 5001	5001	7.7	11.3	--	--	--	--	1.0 D 47 5	--	--	--	--	--	--	--
1/10/72 1340	6 C 5001	5001	7.5	11.4	--	--	--	--	1.5 F 35 5	10	--	--	--	--	--	--
2/11/72 1355	8 C 5001	5001	7.5	9.7	--	--	--	--	0.8 0 14 5	11	--	--	--	--	--	--
3/22/72 1030	15 C 5001	5001	7.8	9.8	--	--	--	--	50 5	7	--	--	--	--	--	--
5/22/72 1430	19 C 5001	5001	7.8	9.5	--	--	--	--	54 5	24	--	--	--	--	--	--
6/20/72 1405	20 C 5001	5001	8.3	9.9	--	--	--	--	38 5	12	--	--	--	--	--	--
7/19/72 1310	22 C 5001	5001	8.2	8.4	--	--	--	--	1.4 B 58 5	5	--	--	--	--	--	--
9/20/72 1525	20 C 5001	5001	7.8	9.3	--	--	--	--	1.6 0	--	--	--	--	--	--	--
E0 B 803.5 201.4 SUISUN BAY NEAR PORT CHICAGO																
11/09/71 1400	14 C 5001	5001	7.3	9.1	--	--	--	--	53 5	16	--	--	--	--	--	--
11/29/71 1300	12 C 5001	5001	7.4	9.6	--	--	--	--	30 5	14	--	--	--	--	--	--
1/04/72 1155	7 C 5001	5001	7.2	12.1	--	--	--	--	1.6 0 103 5	11	--	--	--	--	--	--
1/12/72 1130	7 C 5001	5001	6.9	10.4	--	--	--	--	1.0 0	--	--	--	--	--	--	--
1/17/72 1250	7 C 5001	5001	7.1	10.7	--	--	--	--	0.9 0 26 5	12	--	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	TEMP EC	SAMP LAB	F-PH L-PH	DO G.H.	DISCHARGE MBAS	T+L CHLOR	O+G COLOR	SET S ML/L MG/L	BOD SUS S	COD V SUS S	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE SULFITE	T D SULF	
E0 B 803.5 201.4 SUISUN BAY NEAR PORT CHICAGO																
CONTINUED																
1/24/72 1245	9 C	5001 5001	7.1 7.4	10.5	--	--	--	--	1.3 0 85 5	--	--	--	--	--	--	
1/31/72 1330	7 C	5001 5001	7.8 7.5	11.2	--	--	--	--	1.4 0 41 5	--	--	--	--	--	--	
2/07/72 1330	9 C	5001 5001	7.3 7.5	10.6	--	--	--	--	1.1 0 51 5	12	--	--	--	--	--	
2/14/72 1330	10 C	5001 5001	7.3 7.7	10.1	--	--	--	--	1.4 0 100 5	13	--	--	--	--	--	
2/22/72 1305	12 C	5001 5001	7.8 7.4	9.6	--	--	--	--	1.4 0 49 5	6	--	--	--	--	--	
2/28/72 1230	13 C	5001 5001	8.1 7.7	9.6	--	--	--	--	1.3 0 74 5	8	--	--	--	--	--	
3/06/72 1300	15 C	5001 5001	8.3 8.0	9.3	--	--	--	--	1.3 0 61 5	10	--	--	--	--	--	
3/13/72 1132	16 C	5001 5001	7.4 7.5	9.2	--	--	--	--	2.7 0 127 5	13	--	--	--	--	--	
3/20/72 1330	17 C	5001 5001	7.2 7.5	8.9	--	--	--	--	2.6 0 461 5	36	--	--	--	--	--	
4/03/72 1135	16 C	5001 5001	7.7 7.5	8.9	--	--	--	--	1.1 0 218 5	21	--	--	--	--	--	
4/12/72 1410	15 C	5001 5001	7.6 7.5	9.1	--	--	--	--	1.2 0 247 5	18	--	--	--	--	--	
4/27/72 0745	17 C	5001 5001	7.6 7.5	8.9	--	--	--	--	2.3 0 154 5	10	--	--	--	--	--	
5/04/72 1440	17 C	5001 5001	7.5 7.5	9.0	--	--	--	--	1.0 0 257 5	24	--	--	--	--	--	
5/16/72 1430	20 C	5001 5001	7.5 7.5	8.5	--	--	--	--	2.7 0 721 5	91	--	--	--	--	--	
5/24/72 1545	18 C	5001 5001	7.6 7.6	8.4	--	--	--	--	1.6 0 182 5	36	--	--	--	--	--	
6/01/72 1410	20 C	5001 5001	8.0 7.5	8.9	--	--	--	--	1.6 0 107 5	28	--	--	--	--	--	
6/26/72 1300		5001 5001			--	--	--	--	1.1 0 20 5	3	--	--	--	--	--	
7/03/72 1315	21 C	5001 5001	8.0 7.6	8.4	--	--	--	--	1.3 0 52 5	6	--	--	--	--	--	
7/17/72 1310	22 C	5001 5001	7.9 7.5	8.6	--	--	--	--	2.8 0 --	--	--	--	--	--	--	
7/18/72 1310		5001 5001			--	--	--	--	--	56 5	0	--	--	--	--	--
7/24/72 1540	21 C	5001 5001	8.0 7.5	8.9	--	--	--	--	--	152 5	11	--	--	--	--	--
E0 B 803.5 217.0 SAN PABLO BAY NEAR RODEO																
11/17/71 1335	12 C	5001 5001	7.7 7.6	10.7	--	--	--	--	0.6 0 10 5	0	--	--	--	--	--	
12/13/71 1200	9 C	5001 5001	7.7 7.7	10.4	--	--	--	--	1.0 0 32 5	--	--	--	--	--	--	
3/09/72 0935	14 C	5001 5001	8.0 8.0	9.2	--	--	--	--	--	10 5	2	--	--	--	--	--
4/10/72 1330	14 C	5001 5001	7.9 7.8	8.0	--	--	--	--	--	41 5	4	--	--	--	--	--
5/09/72 1225	16 C	5001 5001	8.0 7.7	8.9	--	--	--	--	--	31 5	6	--	--	--	--	--
6/07/72 1250	17 C	5001 5001	8.1 7.7	8.5	--	--	--	--	--	153 5	46	--	--	--	--	--
7/07/72 1450	20 C	5001 5001	8.0 7.7	8.2	--	--	--	--	2.0 0 17 5	2	--	--	--	--	--	
9/07/72 1545	20 C	5001 5001	7.8 8.0	7.7	--	--	--	--	0.9 0 --	--	--	--	--	--	--	
E0 B 804.4 156.2 HONKER BAY NEAR WHEELER POINT																
10/26/71 1155	16 C	5001 5001	7.5 7.5	9.2	--	--	--	--	1.0 0 17 5	2	--	--	--	--	--	
11/16/71 1220	12 C	5001 5001	7.7 7.6	10.6	--	--	--	--	1.1 0 61 5	2	--	--	--	--	--	
3/22/72 1005	15 C	5001 5001	7.8 7.5	9.6	--	--	--	--	--	95 5	10	--	--	--	--	--
5/22/72 1405	20 C	5001 5001	7.9 8.1	9.6	--	--	--	--	--	62 5	27	--	--	--	--	--
6/20/72 1340	20 C	5001 5001	8.4 8.0	10.0	--	--	--	--	--	41 5	9	--	--	--	--	--
7/19/72 1250	21 C	5001 5001	8.3 8.2	8.8	--	--	--	--	1.0 0 86 5	0	--	--	--	--	--	--
9/20/72 1505	20 C	5001 5001	7.9 7.8	8.9	--	--	--	--	1.6 0 --	--	--	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE TIME	TEMP EC	SAMP LAB	F-PH L-PH	DO G.H.	DISCHARGE MBAS	T+L CHLOR	O+G COLOR	SET 5			BOD ML/L MG/L SUS 5	V COD SUS 5	CYANIDE PHENOLS	TOC DOC	IODIDE T ODOOR	BROMIDE	T SULF D SULF
								ML/L	MG/L	SUS 5							
EO B 805.3 226.3 SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER																	
11/17/71 1220	11	C	5001 5001	7.7 7.8	10.5	--	--	--	--	--	1.2 0 11 5	0	--	--	--	--	--
3/09/72 0830	14	C	5001 5001	7.8 7.9	10.0	--	--	--	--	--	--	2	--	--	--	--	--
4/10/72 1230	14	C	5001 5001	8.0 8.2	8.5	--	--	--	--	--	--	4	--	--	--	--	--
5/09/72 1105	16	C	5001 5001	8.0 7.7	9.0	--	--	--	--	--	9 5	4	--	--	--	--	--
6/07/72 1135	19	C	5001 5001	8.0 7.8	8.5	--	--	--	--	--	--	34	--	--	--	--	--
7/07/72 1325	21	C	5001 5001	8.0 8.1	10.0	--	--	--	--	--	1.5 D 14 5	2	--	--	--	--	--
9/07/72 1450	21	C	5001 5001	7.9 7.9	7.6	--	--	--	--	--	0.8 D	--	--	--	--	--	--
EO B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH																	
10/26/71 1005	15	C	5001 5001	7.6 7.7	9.5	--	--	--	--	--	1.0 0 49 5	0	--	--	--	--	--
11/16/71 1150	13	C	5001 5001	7.3 7.7	10.6	--	--	--	--	--	2.1 D 12 5	0	--	--	--	--	--
12/13/71 1050	9	C	5001 5001	7.3 7.7	11.8	--	--	--	--	--	0.9 D 30 5	--	--	--	--	--	--
1/10/72 1145	6	C	5001 5001	7.7 7.6	10.3	--	--	--	--	--	1.2 F 14 5	2	--	--	--	--	--
3/22/72 0820	15	C	5001 5001	7.2 7.5	9.7	--	--	--	--	--	64 5	9	--	--	--	--	--
4/24/72 1220	16	C	5001 5001	7.7 7.7	10.0	--	--	--	--	--	12 5	2	--	--	--	--	--
5/22/72 1145	18	C	5001 5001	8.0 7.3	9.8	--	--	--	--	--	89 5	30	--	--	--	--	--
6/20/72 1120	19	C	5001 5001	8.3 8.0	9.3	--	--	--	--	--	36 5	4	--	--	--	--	--
7/19/72 1045	20	C	5001 5001	8.0 8.1	8.6	--	--	--	--	--	1.3 B 71 5	0	--	--	--	--	--
9/20/72 1315	19	C	5001 5001	7.5 7.9	9.1	--	--	--	--	--	2.2 D	--	--	--	--	--	--
EO S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS																	
10/28/71 1005	13	C	5001 5001	6.8 7.4	7.4	--	--	--	--	--	3.0 B	--	--	--	--	--	--
11/24/71 0845	11	C	5001 5001	7.3 7.5	9.7	--	--	--	--	--	1.3 B 74 5	66	--	--	--	--	--
12/13/71 1025	8	C	5001 5001	7.2 7.2	10.8	--	--	--	--	--	1.5 B	--	--	--	--	--	--
2/08/72 0930	9	C	5001 5001	7.0 7.0	9.8	--	--	--	--	--	2.6 B	--	--	--	--	--	--
5/05/72 0840	17	C	5001 5001	7.0 7.6	8.9	--	--	--	--	--	1.3 B 64 5	8	--	--	--	--	--
8/02/72 1030	21	C	5001 5001	7.8 7.9	7.9	--	--	--	--	--	1.8 B	--	--	--	--	--	--
EO S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND																	
10/28/71 1220	13	C	5001 5001	7.6 7.9	7.9	--	--	--	--	--	2.2 B	--	--	--	--	--	--
11/24/71 1110	11	C	5001 5001	7.4 7.5	8.8	--	--	--	--	--	1.6 B 25 5	20	--	--	--	--	--
12/13/71 1300	8	C	5001 5001	7.6 7.6	9.9	--	--	--	--	--	1.4 B	--	--	--	--	--	--
2/08/72 1300	8	C	5001 5001	7.5 7.5	9.7	--	--	--	--	--	2.2 B	--	--	--	--	--	--
5/05/72 1210	14	C	5001 5001	7.7 7.5	7.7	--	--	--	--	--	1.6 B 62 5	10	--	--	--	--	--
8/02/72 1515	22	C	5001 5001	7.4 7.5	8.1	--	--	--	--	--	3.0 B	--	--	--	--	--	--
EO S 811.0 204.8 CHADBURNE SLOUGH AT CHADBURNE ROAD																	
10/28/71 1115	13	C	5001 5001	7.5 7.5	8.1	--	--	--	--	--	2.1 B	--	--	--	--	--	--
11/24/71 1010	11	C	5001 5001	7.3 7.4	9.0	--	--	--	--	--	1.7 B 95 5	85	--	--	--	--	--
12/13/71 1135	9	C	5001 5001	7.6 7.6	10.0	--	--	--	--	--	1.3 B	--	--	--	--	--	--
2/08/72 1115	9	C	5001 5001	7.0 7.0	9.1	--	--	--	--	--	2.0 B	--	--	--	--	--	--
5/05/72 1030	16	C	5001 5001	7.6 7.5	7.4	--	--	--	--	--	2.2 B 106 5	13	--	--	--	--	--

TABLE D-5 (CONTINUED)
MISCELLANEOUS CONSTITUENTS IN SURFACE WATER

DATE	TEMP	SAMP	F-PH	DO	DISCHARGE	T+L	O+G	SET S	BOD	V	COD	CYANIDE	TOC	IODIDE	BROMIDE	T	SULF
TIME	EC	LAB	L-PH	G.H.	MBAS	CHLOR	COLOR	ML/L	SUS S	SUS S	SUS S	PHENOLS	DOC	T ODO	SULFITE	T D	SULF
E0 S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD																	
8/02/72 1310	22	C	5001 5001	7.9	8.3	--	--	--	2.5	8	--	--	--	--	--	--	--
E0 S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD																	
10/28/71 1315	14	C	5001 5001	7.3	6.3	--	--	--	2.5	8	--	--	--	--	--	--	--
11/24/71 1200	11	C	5001 5001	7.3	8.1	--	--	--	1.9	8	--	--	--	--	--	--	--
12/13/71 1345	8	C	5001 5001	7.5	9.5	--	--	--	0.8	8	--	--	--	--	--	--	--
2/08/72 1405	9	C	5001 5001	7.2	9.3	--	--	--	2.2	8	--	--	--	--	--	--	--
5/05/72 1300	16	C	5001 5001	7.6	8.4	--	--	--	1.4	8	--	--	--	--	--	--	--
8/02/72 1700	22	C	5001 5001	7.9	8.2	--	--	--	1.3	8	--	--	--	--	--	--	--
E0 S 811.5 207.2 CORDELIA SLOUGH AT UPPER END																	
10/28/71 1040	9	C	5001 5001	7.5	10.9	--	--	--	1.3	8	--	--	--	--	--	--	--
11/24/71 0925	10	C	5001 5001	7.6	8.8	--	--	--	2.3	8	--	--	--	--	--	--	--
5/05/72 0940	17	C	5001 5001	7.8	6.9	--	--	--	1.6	8	--	--	--	--	--	--	--
8/02/72 1230	19	C	5001 5001	8.0	7.3	--	--	--	1.5	8	--	--	--	--	--	--	--
E0 S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD																	
10/28/71 1350	11	C	5001 5001	7.4	10.3	--	--	--	1.6	8	--	--	--	--	--	--	--
11/24/71 1245	11	C	5001 5001	7.6	7.7	--	--	--	3.4	8	--	--	--	--	--	--	--
12/13/71 1410	8	C	5001 5001	7.7	8.2	--	--	--	2.8	8	--	--	--	--	--	--	--
2/08/72 1455	10	C	5001 5001	7.4	7.0	--	--	--	6.6	8	--	--	--	--	--	--	--
5/05/72 1345	16	C	5001 5001	7.6	7.1	--	--	--	3.2	8	--	--	--	--	--	--	--
8/02/72 1740	22	C	5001 5001	8.1	8.8	--	--	--	3.5	8	--	--	--	--	--	--	--
E3 2100.51 GREEN VALLEY CREEK AT CORDELIA																	
12/13/71 1100	8	C	5001 5001	7.1	8.5	--	--	--	2.0	8	--	--	--	--	--	--	--
2/08/72 1025	10	C	5001 5001	7.6	12.2	--	--	--	1.2	8	--	--	--	--	--	--	--

TABLE D-6
NUTRIENT ANALYSIS OF SURFACE WATER

Lab and Sampler Agency Codes

- | | |
|------|---------------------------------------|
| 5001 | - U. S. Bureau of Reclamation |
| 5006 | - McClellan Air Force Base Laboratory |
| 5050 | - Department of Water Resources |
| 5063 | - Santa Cruz County Health Department |

Abbreviations

- | | |
|------|--|
| TIME | - Pacific Standard Time on a 24-hour clock |
| G.H. | - Instantaneous gage height in feet above an established datum |
| Q | - Instantaneous discharge in cubic feet per second |
| TEMP | - Water temperature at time of sampling in degrees
Fahrenheit (F) and Celsius (C) |
| TURB | - Jackson Turbidity Units measured with a Hellege Turbidimeter (E)
or a Hack Nephelometer (A) |
| CO2 | - Field determination of carbon dioxide in milligrams per liter |
| ALK. | - Field determination of alkalinity as calcium carbonate in
milligrams per liter |
| PH | - Measure of acidity (<7) or alkalinity (>7) of water |
| EC | - Electrical conductance in micromhos at 25° C |
| HC03 | - Bicarbonate in milligrams per liter |
| CO3 | - Carbonate in milligrams per liter |

Nitrogen Series as N

- | | |
|-------|---------------------------------|
| NO2 | - Unfiltered nitrite |
| NH3 | - Unfiltered ammonia |
| NO3 | - Unfiltered nitrate |
| ORG N | - Organic nitrogen |
| DIS | - Dissolved organic nitrogen |
| ORG N | - Dissolved organic nitrogen |
| NH3 + | - Ammonia plus organic nitrogen |
| ORG N | - Ammonia plus organic nitrogen |

Phosphorus Series as P

- | | |
|---------|---|
| DIS | - Dissolved acid hydrolyzable phosphate |
| A.H.PO4 | - Dissolved acid hydrolyzable phosphate |
| D O-PO4 | - Dissolved orthophosphate |
| T O-PO4 | - Total orthophosphate |
| D TOT P | - Dissolved total phosphorus |
| TOT P | - Total phosphorus |

TABLE D-6 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. D	TEMP TURB	FIELD CO2 ALK.	FIELD PH	LABORATORY EC	LAB8 HC03 C03	N02 NH3 NH3	NUTRIENT DIS. ORG N	CONSTITUENTS IN MILLIGRAMS PER LITER	D 0-P04 DIS. ORG N	D 0-P04 A.H.P04 T 0-P04	D TOT P TOT P	
DO 1100.00 BRANCIFORTE CREEK AT SANTA CRUZ														
3/21/72 1200	5063 5050		54 F 2A		7.5 8.1	450 475	170 0	-- --	-- --	-- --	-- --	0.13 --	--	
9/11/72 1030	5063 5050		68 F 19A		7.3 7.5	310 344	116 0	-- --	-- --	-- --	-- --	0.15 --	--	
DO 1180.01 SAN LORENZO RIVER AT PARADISE PARK														
3/21/72 1445	5063 5050		59 F 1A		7.8 8.3	390 385	139 0	-- --	-- --	-- --	-- --	0.14 --	--	
9/11/72 1200	5063 5050		70 F 3A		8.0 7.8	400 365	138 0	-- --	-- --	-- --	-- --	0.04 --	--	
DO 1220.01 ZAYANTE CREEK AT FELTON														
3/21/72 1410	5063 5050		58 F 2A		7.8 8.2	420 425	142 0	-- --	-- --	-- --	-- --	0.29 --	--	
9/11/72 1300	5063 5050		60 F 2A		8.0 7.8	470 405	137 0	-- --	-- --	-- --	-- --	0.36 --	--	
DO 1498.01 SAN LORENZO RIVER AT BOULDER CREEK														
3/21/72 1010	5063 5050		52 F 1A		7.5 8.0	480 458	159 0	-- --	-- --	-- --	-- --	0.05 --	--	
9/11/72 1500	5063 5050		60 F 2A		7.8 7.7	515 495	177 0	-- --	-- --	-- --	-- --	0.10 --	--	
DO 2020.00 APTOS CREEK BELOW VALENCIA CREEK														
3/21/72 1330	5063 5050		56 F 3A		8.0 8.3	760 749	269 0	-- --	-- --	-- --	-- --	0.18 --	--	
9/11/72 1130	5063 5050		62 F 1A		8.2 7.8	910 948	337 0	-- --	-- --	-- --	-- --	0.24 --	--	
DO 3100.00 SOQUEL CREEK AT SOQUEL														
3/21/72 1300	5063 5050		62 F 1A		7.8 8.3	780 783	247 0	-- --	-- --	-- --	-- --	0.11 --	--	
9/11/72 1100	5063 5050	2.5	66 F 15A		7.8 8.0	700 718	242 0	-- --	-- --	-- --	-- --	0.10 --	--	
DO 4010.01 SCOTT CREEK AT HIGHWAY 1														
3/21/72 0905	5063 5050		54 F 1A		7.1 7.6	405 397	84 0	-- --	-- --	-- --	-- --	0.03 --	--	
9/11/72 0930	5063 5050		64 F 10A		7.9 7.8	4000 4350	222 0	-- --	-- --	-- --	-- --	0.06 --	--	
D1 1075.30 PAJARO RIVER AT THURWACHTER ROAD														
4/25/72 1515	5050 5050		67 F		8.5	8000 8430		-- --	0.03 --	-- --	1.4 --	0.04 --	0.02 --	0.14
5/23/72 1250	5050 5050		67 F		8.7	6000 6040		-- --	0.01 --	-- --	-- --	-- --	-- --	--
D2 1006.30 TEMBLADERO SLOUGH AT MOLERA ROAD														
4/25/72 1415	5050 5050		66 F		7.9	1400 1530		-- --	12. --	-- --	12. --	0.00 --	3.0 --	3.0
5/23/72 1145	5050 5050		56 F		8.8	3200 3510		-- --	0.53 --	-- --	-- --	-- --	-- --	--
D2 1006.50 OLD SALINAS RIVER ABOVE TEMBLADERO SLOUGH														
4/25/72 1430	5050 5050		72 F		8.5	1400 2090		-- --	1.1 --	-- --	4.5 --	0.47 --	0.73 --	1.4
5/23/72 1215	5050 5050		61 F		8.9	3200 3390		-- --	0.13 --	-- --	-- --	-- --	-- --	--
D2 1020.70 SALINAS RECLAMATION CANAL AT AIRPORT WAY														
4/25/72 0850	5050 5050		58 F		8.2	550 696		-- --	2.2 --	-- --	0.8 --	0.01 --	0.92 --	0.93
5/23/72 0722	5050 5050	1.0	56 F		8.5	890 1060		-- --	23. --	-- --	-- --	-- --	-- --	--
D2 1030.30 BLANCO DRAIN AT PUMP LIFT														
4/25/72 1345	5050 5050		75 F		8.3	2350 3220		-- --	22. --	-- --	0.8 --	0.20 --	1.0 --	1.2
5/23/72 0930	5050 5050		55 F		8.0	2300 1840		-- --	14. --	-- --	-- --	-- --	-- --	--
D2 1110.50 SALINAS RIVER AT TWIN BRIDGES														
11/04/71 0700	5050 5050		53 F 413		7.2	1750		0.40 4.1	1.8 0.1	-- --	4.2 --	0.5 --	5.8 --	--
4/25/72 1015	5050 5050		59 F		8.4	1330 1500		-- --	3.0 --	-- --	2.4 --	0.00 --	3.7 --	4.0
5/23/72 1000	5050 5050		19 C		9.0	1900 1910		-- --	4.5 --	-- --	-- --	-- --	-- --	--

TABLE D-6 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. O	TEMP TURB	FIELD CO ₂	FIELD ALK.	LABORATORY PH	LAB HC ₀₃ CO ₃	NO ₂ NH ₃	NUTRIENT ND ₃ ORG N	CONSTITUENTS IN MILLIGRAMS PER LITER	DIS ORG N	NH ₃ + ORG N	DIS A ₂ H ₂ PO ₄	O ₂ -P ₀₄ T ₀ -P ₀₄	D TOT P
D2 1110.70 SALINAS RIVER 1.9 MILES ABOVE HIGHWAY 1 BRIDGE															
11/04/71 0615 5050 5050 51 F 7.2 1650 0.56 2.3 -- 9.4 0.5 6.0 -- 6.5															
D2 1120.50 SALINAS RIVER AT BLANCO DRAIN															
11/04/71 0850 5050 5050 50 F 7.2 1500 0.09 0.15 -- 8.3 0.0 7.5 -- 7.5	--	7.7	1.7	--	8.3	0.0	--	7.5	--	7.5	--	7.5	--	7.5	
D2 1150.30 SALINAS RIVER AT BLANCO ROAD															
11/04/71 0745 5050 5050 50 F 7.3 1580 0.06 0.14 -- 9.3 0.3 7.6 -- 8.0	18.1	8.4	0.9	--	9.3	0.3	--	7.6	--	8.0	--	7.6	--	8.0	
D2 1160.20 SALINAS RIVER AT DAVIS ROAD															
11/04/71 0820 5050 5050 53 F 7.4 1500 0.44 3.3 -- 8.7 0.2 6.6 -- 7.3	6.8	6.8	1.9	--	8.7	0.2	--	6.6	--	7.3	--	6.6	--	7.3	
D2 1325.10 SALINAS RIVER NEAR GONZALES															
4/25/72 1220 5050 5050 67 F 8.2 475 0.00 0.00 -- 0.3 0.02 0.08 0.08 0.10	538	--	--	--	0.3	0.02	0.08	--	--	0.10	--	--	--	--	
5/23/72 0815 5050 5050 55 F 8.5 400 0.00 0.00 -- -- -- -- -- --	434	--	--	--	--	--	--	--	--	--	--	--	--	--	
E0 8 735.0 215.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)															
11/24/71 1230 5050 5050 53.5F 8.0 44000 0.00 0.46 -- 0.2 0.00 0.45 -- 0.49	5E	39300	0.00	0.2	--	0.2	0.00	0.45	--	0.49	--	0.45	--	0.49	
12/21/71 0945 5050 5050 47.5F 8.0 41000 0.01 0.50 -- 0.2 0.21 0.23 0.23 -- 0.35	9E	39400	0.01	0.2	--	0.21	0.0	0.23	--	0.35	--	0.23	--	0.35	
1/24/72 1430 5050 5050 49 F 7.9 40000 0.09 0.72 -- 0.2 0.29 0.01 0.37 -- 0.44	30E	37800	0.09	0.2	--	0.29	0.01	0.37	--	0.44	--	0.37	--	0.44	
2/17/72 0850 5050 5050 51.5F 8.2 37200 0.10 0.58 -- 0.10 0.2 0.2 0.00 0.26 -- 0.35	6A	37200	0.10	0.10	--	0.2	0.00	0.26	--	0.35	--	0.26	--	0.35	
3/20/72 1230 5050 5050 60 F 8.8 36000 0.00 0.04 -- 0.3 0.3 0.08 0.22 -- 0.42	3A	36700	0.00	0.3	--	0.3	0.08	0.22	--	0.42	--	0.22	--	0.42	
4/18/72 1130 5050 5050 56 F 8.0 39000 0.00 0.58 -- 0.2 0.2 0.02 0.38 -- 0.53	4.8A	37500	0.00	0.2	--	0.2	0.02	0.38	--	0.53	--	0.38	--	0.53	
5/16/72 1045 5050 5050 66 F 8.1 39000 0.00 0.34 -- 0.1 0.1 0.04 0.38 -- 0.49	3A	39100	0.00	0.1	--	0.1	0.04	0.38	--	0.49	--	0.38	--	0.49	
6/13/72 0915 5050 5050 65 F 8.0 40000 0.00 0.28 -- 0.1 0.1 0.01 0.44 -- 0.52	3A	41400	0.00	0.1	--	0.1	0.01	0.44	--	0.52	--	0.44	--	0.52	
7/11/72 0900 5050 5050 70 F 8.1 44000 0.00 0.28 -- 0.1 0.1 0.23 0.39 -- 0.77	6A	43000	0.00	0.1	--	0.1	0.23	0.39	--	0.77	--	0.39	--	0.77	
8/09/72 0800 5050 5050 70 F 8.0 44000 0.03 0.50 -- 0.4 0.4 0.03 0.63 -- 0.77	3A	43000	0.03	0.4	--	0.4	0.03	0.63	--	0.77	--	0.63	--	0.77	
9/11/72 1000 5050 5050 69 F 7.9 44000 0.01 0.19 -- 0.2 0.2 0.12 0.45 -- 0.68	1A	48400	0.01	0.2	--	0.2	0.12	0.45	--	0.68	--	0.45	--	0.68	
E0 8 736.2 212.0 SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)															
10/26/71 1430 5050 5050 58.5F 8.4 42500 0.00 0.14 -- 0.2 0.01 0.37 -- 0.46	3E	40300	0.00	0.2	--	0.2	0.01	0.37	--	0.46	--	0.37	--	0.46	
11/24/71 1345 5050 5050 54 F 8.0 48000 0.01 0.51 -- 0.5 0.51 0.00 0.47 -- 0.52	9E	39300	0.01	0.5	--	0.51	0.00	0.47	--	0.52	--	0.47	--	0.52	
12/21/71 1030 5050 5050 47 F 7.9 41000 0.05 0.66 -- 0.2 0.25 0.02 0.30 -- 0.50	25E	39200	0.05	0.2	--	0.25	0.02	0.30	--	0.50	--	0.30	--	0.50	
1/24/72 1515 5050 5050 49 F 8.0 40000 0.04 0.55 -- 0.1 0.14 0.00 0.19 -- 0.28	20E	38200	0.04	0.1	--	0.14	0.00	0.19	--	0.28	--	0.19	--	0.28	
2/17/72 0950 5050 5050 51.5F 8.2 37100 0.03 0.58 -- 0.17 0.2 0.00 0.23 -- 0.33	4A	37100	0.03	0.17	--	0.2	0.00	0.23	--	0.33	--	0.23	--	0.33	
3/20/72 1330 5050 5050 60 F 8.7 38000 0.00 0.00 -- 0.2 0.2 0.08 0.16 -- 0.30	3A	37000	0.00	0.2	--	0.2	0.08	0.16	--	0.30	--	0.16	--	0.30	
4/18/72 1215 5050 5050 58 F 8.2 38500 0.00 0.39 -- 0.3 0.3 0.03 0.29 -- 0.37	12A	37600	0.00	0.3	--	0.3	0.03	0.29	--	0.37	--	0.29	--	0.37	
5/16/72 1145 5050 5050 68 F 8.2 38000 0.00 0.00 -- 0.3 0.3 0.18 0.25 -- 0.54	5A	39200	0.00	0.3	--	0.3	0.18	0.25	--	0.54	--	0.25	--	0.54	
6/13/72 0945 5050 5050 68 F 8.0 43 0.00 0.03 -- 0.1 0.1 0.11 0.25 -- 0.36	21A	42400	0.00	0.1	--	0.1	0.11	0.25	--	0.36	--	0.25	--	0.36	
7/11/72 0930 5050 5050 68 F 8.2 43000 0.00 0.23 -- 0.2 0.2 0.08 0.30 -- 0.49	10A	42900	0.00	0.2	--	0.2	0.08	0.30	--	0.49	--	0.30	--	0.49	
8/09/72 0845 5050 5050 70 F 8.1 45000 0.00 0.04 -- 0.3 0.3 0.11 0.31 -- 0.51	15A	43400	0.00	0.3	--	0.3	0.11	0.31	--	0.51	--	0.31	--	0.51	
9/11/72 1100 5050 5050 68 F 8.2 45000 0.00 0.01 -- 0.1 0.1 0.12 0.35 -- 0.53	2A	49100	0.00	0.1	--	0.1	0.12	0.35	--	0.53	--	0.35	--	0.53	
E0 8 749.2 222.4 SAN FRANCISCO BAY AT TREASURE ISLAND															
10/26/71 1115 5050 5050 57.5F 8.0 40000 0.00 0.22 -- 0.2 0.2 0.02 0.07 -- 0.13	SE	38900	0.00	0.2	--	0.2	0.02	0.07	--	0.13	--	0.07	--	0.13	
11/24/71 1045 5050 5050 53 F 7.8 49000 0.00 0.26 -- 0.1 0.1 0.02 0.08 -- 0.10	3E	39400	0.00	0.1	--	0.1	0.02	0.08	--	0.10	--	0.08	--	0.10	
12/21/71 0830 5050 5050 48 F 7.7 41000 0.00 0.37 -- 0.2 0.2 0.00 0.06 -- 0.15	7E	39600	0.00	0.2	--	0.2	0.00	0.06	--	0.15	--	0.06	--	0.15	

TABLE D-6 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. O	TEMP TURB.	FIELD CO2 ALK.	FIELD PH	LABORATORY EC	LAB HCO3 CO3	NUTRIENT NO2 NH3	CONSTITUENTS IN MILLIGRAMS PER LITER	D DIS ORG N	DIS ORG N	D A-H.PO4 T PO4	D TOT P
E0 B 749.2 222.4													
SAN FRANCISCO BAY AT TREASURE ISLAND													
CONTINUED													
1/24/72 1245	5050 5050	49	F 20E	8.0 38400	40000	--	0.47 0.1	0.04 0.14	0.02	0.10 --	--	0.17	--
2/17/72 0750	5050 5050	50	F 6A	8.2 40000	39000	--	0.33 0.17	0.03 0.2	0.03	0.07 --	--	0.11	--
3/20/72 1045	5050 5050	57	F 3A	8.2 39300	39000	--	0.16 0.2	0.00 0.2	0.06	0.07 --	--	0.07	--
4/18/72 1015	5050 5050	55	F 3.3A	8.0 41900	42000	--	0.17 0.1	0.00 0.1	0.01	0.08 --	--	0.13	--
5/16/72 0950	5050 5050	60	F 6A	7.8 42800	42000	--	0.25 0.2	0.00 0.2	0.08	0.08 --	--	0.16	--
6/13/72 0800	5050 5050	62	F 4A	8.0 43500	43000	--	0.19 0.0	0.00 0.1	0.07	0.09 --	--	0.19	--
7/11/72 0730	5050 5050	65	F 5A	8.1 44400	45000	--	0.16 0.1	0.00 0.1	0.16	0.08 --	--	0.29	--
8/09/72 0645	5050 5050	63.5F 4A		8.0 43200	45000	--	0.24 0.2	0.03 0.2	0.23	0.11 0.07	--	0.19	--
9/11/72 0915	5050 5050	64	F 2A	8.0 47200	44000	--	0.14 0.1	0.02 0.1	0.00	0.46 --	--	0.52	--
E0 B 801.8 222.3													
SAN PABLO BAY NEAR PINOLE POINT													
11/17/71 1305	5001 5006	13	C 11A	7.7 7.7	36900	122 0	0.29 0.13	0.06 0.25	--	0.13 0.13	--	0.15	--
3/09/72 0900	5001 5006	13	C 3A	8.2 8.2	28600	112 0	0.28 0.10	0.10 0.22	--	0.07 0.07	--	0.08	--
4/10/72 1305	5001 5006	14	C 7A	7.8 7.8	30300	112 0	0.24 0.40	0.11 --	0.51	--	0.08	0.10	--
5/09/72 1150	5001 5006	15	C 7A	7.9 7.7	38300	123 0	0.29 0.40	0.40 0.52	--	0.10 0.10	--	0.12	--
6/07/72 1220	5001 5006	16	C 5A	8.0 7.6	40300	121 0	0.27 0.20	0.06 0.20	0.26	--	0.11	0.14	--
7/07/72 1400	5001 5006	20	C 4A	8.0 7.8	37600	127 0	0.19 0.50	0.04 0.50	0.54	--	0.07	0.12	--
8/07/72 1410	5001 5006	19	C 5A	7.8 8.1	43100	128 0	0.08 0.05	0.05 0.05	0.1	--	0.05	0.10	--
9/07/72 1515	5001 5006	20	C 3A	7.8 7.7	42300	127 0	0.06 0.40	0.04 0.40	0.44	--	0.03	0.11	--
E0 B 802.3 207.1													
SUISUN BAY OFF BULLS HEAD POINT													
10/26/71 1045	5001 5006	16	C 14A	7.7 18800	93 0	-- 0.10	0.22 0.17	0.13 0.27	--	0.10 0.10	--	0.13	--
11/17/71 1415	5001 5006	12	C 16A	7.6 7.6	24200	98 0	0.25 0.10	0.05 0.25	--	0.09 0.09	--	0.09	--
12/13/71 1245	5001 5006	10	C 13A	7.7 7.6	17400	94 0	0.32 0.48	0.14 0.11	0.62	--	0.13	0.14	--
1/10/72 1235	5001 5006	7	C 16A	7.6 7.7	12500	83 0	0.47 0.30	0.12 0.25	0.42	--	0.10	0.14	--
2/11/72 1245	5001 5006	9	C 12A	7.5 7.6	15900	92 0	0.44 0.23	0.15 0.19	0.38	--	0.07	0.09	--
3/22/72 0905	5001 5006	15	C 15A	7.8 7.4	15300	90 0	0.27 0.80	0.12 0.50	0.92	--	0.09	0.10	--
4/24/72 1330	5001 5006	16	C 10A	7.9 7.7	22300	100 0	0.30 0.30	0.15 0.10	0.45	--	0.10	0.11	--
5/22/72 1240	5001 5006	18	C 7A	7.9 7.1	23700	101 0	0.26 0.30	0.08 0.08	0.38	--	0.10	0.11	--
6/20/72 1205	5001 5006	19	C 6A	8.1 7.9	26600	102 0	0.15 0.50	0.06 0.40	0.56	--	0.10	0.22	--
7/19/72 1135	5001 5006	20	C 6A	8.0 8.1	26300	106 0	0.14 0.40	0.08 0.30	0.48	--	0.09	0.11	--
8/21/72 1550	5001 5006	21	C 5A	8.0 7.8	23500	100 0	0.10 0.40	0.04 0.40	0.44	--	0.07	0.09	--
9/20/72 1400	5001 5006	20	C 13A	7.9 7.9	18000	91 0	0.05 0.50	0.02 0.40	0.52	--	0.05	0.12	--
E0 B 802.8 155.0													
SACRAMENTO RIVER AT CHIPPS ISLAND													
10/26/71 1225	5001 5006	16	C 28A	7.6 900	66 0	-- 0.02	0.12 0.21	0.13 0.23	--	0.05 0.05	--	0.06	--
11/17/71 1505	5001 5006	12	C 32A	7.6 7.7	3290	72 0	0.23 0.26	0.07 0.12	0.33	--	0.05	0.14	--
12/13/71 1340	5001 5006	10	C 22A	7.7 7.5	2700	69 0	0.25 0.46	0.07 0.21	0.53	--	0.06	0.06	--
1/10/72 1340	5001 5006	6	C 18A	7.5 7.6	1190	67 0	0.48 0.22	0.11 0.15	0.33	--	0.07	0.10	--
2/11/72 1355	5001 5006	8	C 18A	7.5 7.3	1640	72 0	0.38 0.29	0.09 0.26	0.38	--	0.06	0.10	--
3/22/72 1030	5001 5006	15	C 30A	7.8 7.5	577	64 0	0.24 1.10	0.04 0.50	1.14	--	0.07	0.10	--

TABLE D-6 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. Q	TEMP TURB	FIELD CO ₂ ALK.	FIELD PH EC	LAB HC ₀₃ C ₀₃	NO ₂ NH ₃	NUTRIENT CONSTITUENTS IN MILLIGRAMS PER LITER					
								NO ₃ ORG N	OIS ORG N	NH ₃ + OHG N	DIS A.H.PO ₄	D T D-P-O ₄	T D-P-O ₄
E0 B 802.8 155.0 SACRAMENTO RIVER AT CHIPPS ISLAND										CONTINUED			
5/22/72 1430	5001 5006	19 C 23A	7.8 8.0	80 7650	0	0.04 0.50	0.17 0.40	0.50 0.54	-- --	0.06 0.06	-- 0.11	-- --	
6/20/72 1405	5001 5006	20 C 26A	8.3 7.8	80 12700	0	0.005 0.80	0.09 0.50	0.50 0.805	-- --	0.07 0.07	-- 0.27	-- --	
7/19/72 1310	5001 5006	22 C 35A	8.2 8.1	85 9690	0	0.005 0.50	0.10 0.40	0.40 0.505	-- --	0.06 0.06	-- 0.10	-- --	
8/21/72 1715	5001 5006	22 C 22A	8.2 7.9	82 6910	0	0.02 0.50	0.02 0.50	0.50 0.52	-- --	0.06 0.06	-- 0.07	-- 0.07	
9/20/72 1525	5001 5006	20 C 36A	7.8 7.8	81 2320	0	0.03 0.50	0.04 0.40	0.40 0.53	-- --	0.07 0.07	-- 0.17	-- --	
E0 B 803.5 201.4 SUISUN BAY NEAR PORT CHICAGO													
10/04/71 1300	5001 5006	19 C 85A	7.8 3600	-- 0.04	0.11 --	-- --	-- --	-- --	-- 0.06	-- 0.06	-- 0.06	-- 0.06	
11/29/71 1300	5001 5006	12 C 32A	7.4 7.5	>15000 0	89 0	-- 0.14	0.30 0.21	-- 0.35	-- --	-- 0.09	-- 0.09	-- 0.09	
12/14/71 1200	5001 5006	9 C 50A	9.0 >15000	-- 0.16	0.30 0.54	-- 0.33	0.7 0.7	-- --	-- 0.10	-- 0.10	-- 0.10	-- 0.10	
12/21/71 1135	5001 5006	7 C 25A	7.4 6000	-- 0.11	0.28 0.17	-- 0.17	0.28 0.28	-- --	-- 0.08	-- 0.12	-- --	-- --	
1/12/72 1130	5001 5006	7 C 20A	6.9 7.6	>15000 0	90 0	-- 0.14	0.42 0.23	-- 0.37	-- --	-- 0.09	-- 0.11	-- --	
2/07/72 1330	5001 5006	9 C 28A	7.3 7.5	80 8100	0	-- 0.12	0.36 0.42	-- 0.54	-- --	-- 0.06	-- 0.13	-- --	
3/13/72 1132	5001 5006	16 C 72A	7.4 4300	-- 0.10	0.33 0.20	-- 0.05	0.3 0.3	-- --	-- 0.08	-- 0.08	-- 0.08	-- 0.08	
3/20/72 1330	5001 5006	17 C 250A	7.2 --	-- 0.07	0.32 1.30	-- 0.40	1.37 1.37	-- --	-- 0.08	-- 0.40	-- --	-- --	
4/12/72 1410	5001 5006	15 C 125A	7.6 14100	-- 0.16	0.31 0.70	-- --	0.86 0.86	-- --	-- 0.10	-- 0.15	-- --	-- --	
4/27/72 0745	5001 5006	17 C 70A	7.6 --	-- 0.10	0.29 0.40	-- 0.40	0.5 0.5	-- --	-- 0.09	-- 0.22	-- --	-- --	
5/24/72 1545	5001 5006	18 C 35A	7.6 >15000	-- 0.06	0.12 0.50	-- 0.40	0.56 0.56	-- --	-- 0.05	-- 0.16	-- --	-- --	
6/26/72 1300	5001 5006	-- --	-- 0.04	-- 0.08	-- 0.80	-- 0.50	0.84 0.84	-- --	-- 0.06	-- 0.29	-- --	-- --	
7/03/72 1315	5001 5006	21 C 26A	8.0 >15000	-- 0.05	0.12 0.60	-- 0.40	0.65 0.65	-- --	-- 0.07	-- --	-- --	-- --	
7/17/72 1310	5001 5006	22 C 33A	7.9 >15000	-- 0.09	0.12 0.70	-- 0.50	0.79 0.79	-- --	-- 0.03	-- 0.06	-- --	-- --	
E0 B 803.5 217.0 SAN PABLO BAY NEAR RODEO													
11/17/71 1335	5001 5006	12 C 14A	7.7 7.6	108 27300	0	-- 0.15	0.41 0.15	0.07 0.3	-- --	-- 0.11	-- 0.12	-- --	
12/13/71 1200	5001 5006	9 C 7A	7.7 7.7	102 25100	0	-- 0.14	0.30 0.48	0.14 0.62	-- --	-- 0.13	-- 0.18	-- --	
3/09/72 0935	5001 5006	14 C 7A	8.0 8.0	97 17200	0	-- 0.11	0.35 0.05	0.05 0.16	-- --	-- 0.08	-- 0.08	-- --	
4/10/72 1330	5001 5006	14 C 32A	7.9 7.8	106 26900	0	-- 0.17	0.25 0.20	-- 0.37	-- --	-- 0.08	-- 0.12	-- --	
5/09/72 1225	5001 5006	16 C 21A	8.0 7.7	117 33400	0	-- 0.11	0.26 0.40	0.30 0.51	-- --	-- 0.10	-- 0.14	-- --	
6/07/72 1250	5001 5006	17 C 6A	8.1 7.7	115 36200	0	-- 0.08	0.30 0.30	0.20 0.38	-- --	-- 0.11	-- 0.12	-- --	
7/07/72 1450	5001 5006	20 C 7A	8.0 7.7	118 34800	0	-- 0.04	0.19 0.60	0.50 0.64	-- --	-- 0.07	-- 0.13	-- --	
8/07/72 1435	5001 5006	20 C 12A	7.8 8.0	111 34800	0	-- 0.04	0.05 0.10	0.05 0.14	-- --	-- 0.03	-- 0.10	-- --	
9/07/72 1545	5001 5006	20 C 4A	7.8 7.7	121 38000	0	-- 0.09	0.19 0.30	0.30 0.39	-- --	-- 0.12	-- 0.14	-- --	
E0 B 804.4 156.2 HONKER BAY NEAR WHEELER POINT													
10/26/71 1155	5001 5006	16 C 32A	7.5 812	66 0	-- 0.03	0.12 0.27	0.09 0.3	0.3 --	-- 0.05	-- 0.14	-- --	-- --	
11/16/71 1220	5001 5006	12 C 50A	7.7 7.6	71 4490	0	-- 0.07	0.21 0.37	0.13 0.44	-- --	-- 0.05	-- 0.05	-- --	
3/22/72 1005	5001 5006	15 C 40A	7.6 7.5	65 1130	0	-- 0.04	0.27 1.90	0.50 1.94	-- --	-- 0.07	-- 0.12	-- --	
5/22/72 1405	5001 5006	20 C 24A	7.9 8.1	81 7910	0	-- 0.04	0.18 0.60	0.40 0.64	-- --	-- 0.06	-- 0.10	-- --	
6/20/72 1340	5001 5006	20 C 27A	8.4 8.0	87 11800	0	-- 0.01	0.06 1.00	0.40 1.01	-- --	-- 0.07	-- 0.39	-- --	
7/19/72 1250	5001 5006	21 C 40A	8.3 8.2	86 11000	0	-- 0.02	0.07 0.40	0.40 0.42	-- --	-- 0.05	-- 0.14	-- --	
8/21/72 1655	5001 5006	22 C 27A	8.2 7.7	82 7330	0	-- 0.01	0.005 0.60	0.40 0.61	-- --	-- 0.05	-- 0.07	-- --	

TABLE D-6 (CONTINUED)
NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. O	TEMP TURB	FIELD CO2 ALK.	FIELD LABORATORY PH EC	LAB HCO3 CO3	NUTRIENT NO2 NH3 ORG N	CONSTITUENTS IN MILLIGRAMS PER LITER DIS ORG N ORG N A+H+PO4	D 0-P04 DIS ORG N A+H+PO4	D TOT P TOT P
E0 B 804.4 156.2 HONKER BAY NEAR WHEELER POINT CONTINUED										
9/20/72 1505	5001 5006	20 C 32A	7.9 7.8	1850	80 0	-- 0.03	0.07 0.60	0.40	0.63 --	-- 0.07
E0 B 805.3 226.3 SAN PABLO BAY NEAR MOUTH OF PETALUMA RIVER										
11/17/71 1220	5001 5006	11 C 19A	7.7 7.8	29300	111 0	-- 0.10	0.41 0.13	0.09	0.23 --	-- 0.12
3/09/72 0830	5001 5006	14 C 10A	7.8 7.9	22900	106 0	-- 0.05	0.36 0.05	0.05	0.1 --	-- 0.07
4/10/72 1230	5001 5006	14 C 15A	8.0 8.2	31300	117 0	-- 0.02	0.13 0.50	--	0.52 --	-- 0.08
5/09/72 1105	5001 5006	16 C 15A	8.0 7.7	34300	117 0	-- 0.09	0.34 0.40	0.30	0.49 --	-- 0.10
6/07/72 1135	5001 5006	19 C 12A	8.0 7.8	35600	113 0	-- 0.05	0.35 0.60	0.40	0.65 --	-- 0.11
7/07/72 1325	5001 5006	21 C 6A	8.0 8.1	38700	121 0	-- 0.005	0.02 0.70	0.40	0.705 --	-- 0.09
8/07/72 1330	5001 5006	21 C 34A	7.8 8.3	35800	121 0	-- 0.03	0.06 0.05	0.05	0.08 --	-- 0.10
9/07/72 1450	5001 5006	21 C 12A	7.9 7.9	37000	117 0	-- 0.01	0.02 0.40	0.40	0.41 --	-- 0.03
E0 B 807.0 202.3 GRIZZLY BAY AT DOLPHIN NEAR SUISUN SLOUGH										
10/26/71 1005	5001 5006	15 C 38A	7.6 4190	69	-- 0	0.17 0.05	0.24	0.15	0.29 --	-- 0.06
11/16/71 1150	5001 5006	13 C 60A	7.3 7.7	8480	83 0	-- 0.10	0.23 0.41	0.005	0.51 --	-- 0.08
12/13/71 1050	5001 5006	9 C 27A	7.3 7.7	7570	79 0	-- 0.10	0.28 0.38	0.26	0.48 --	-- 0.09
1/10/72 1145	5001 5006	6 C 23A	7.7 7.6	3800	70 0	-- 0.10	0.38 0.23	0.09	0.33 --	-- 0.08
3/22/72 0820	5001 5006	15 C 50A	7.2 7.5	3030	67 0	-- 0.08	0.31 1.00	0.40	1.08 --	-- 0.08
4/24/72 1220	5001 5006	16 C 33A	7.7 7.7	7940	83 0	-- 0.09	0.28 0.20	0.10	0.29 --	-- 0.09
5/22/72 1145	5001 5006	18 C 17A	8.0 7.3	12500	78 0	-- 0.02	0.19 0.50	0.20	0.52 --	-- 0.07
6/20/72 1120	5001 5006	19 C 22A	8.3 8.0	17900	93 0	-- 0.01	0.04 0.70	0.50	0.71 --	-- 0.07
7/19/72 1045	5001 5006	20 C 33A	8.0 8.1	17000	94 0	-- 0.01	0.08 0.40	0.40	0.41 --	-- 0.06
8/21/72 1500	5001 5006	21 C 38A	8.1 8.1	11800	87 0	-- 0.01	0.02 0.80	0.50	0.81 --	-- 0.05
9/20/72 1315	5001 5006	19 C 39A	7.5 7.9	6820	84 0	-- 0.03	0.02 0.50	0.50	0.53 --	-- 0.05
E0 S 809.2 205.3 CORDELIA SLOUGH AT CYGNUS										
11/24/71 0845	5001 5006	11 C 45A	7.3 7.5	4950	90 0	-- 0.110	0.3 0.47	--	0.58 --	-- 0.05
2/08/72 0930	5001 5006	9 C 45A	7.0 7.0	2730	-- 0.240	0.5 1.01	--	1.25 --	-- 0.01	
5/05/72 0840	5001 5006	17 C 65A	7.0 7.6	9430	84 0	-- 0.030	0.2 0.70	--	0.73 --	-- 0.06
8/02/72 1030	5001 5006	21 C 36A	7.8 14200	--	0.005 0.010	0.70	--	0.71 --	-- 0.01	
E0 S 810.8 202.8 SUISUN SLOUGH AT VOLANTI SLOUGH ON JOICE ISLAND										
11/24/71 1110	5001 5006	11 C 60A	7.4 7.5	3870	114 0	-- 0.150	0.4 0.73	--	0.88 --	-- 0.06
12/13/71 1300	5001 5006	8 C 55A	7.6 3740	--	0.330	0.9 1.32	--	1.65 --	-- 0.05	
5/05/72 1210	5001 5006	14 C 75A	7.7 7.5	5060	105 0	-- 0.080	0.7 1.00	--	1.08 --	-- 0.10
8/02/72 1515	5001 5006	22 C 39A	7.4 14100	--	0.020	0.01 1.00	--	1.02 --	-- 0.03	
E0 S 811.0 204.8 CHADBOURNE SLOUGH AT CHADBOURNE ROAD										
11/24/71 1010	5001 5006	11 C 55A	7.3 7.4	4170	105 0	-- 0.140	0.4 0.63	--	0.77 --	-- 0.04
2/08/72 1115	5001 5006	9 C 55A	7.0 2990	--	0.440	0.8 1.01	--	1.45 --	-- 0.02	
5/05/72 1030	5001 5006	16 C 65A	7.6 5610	104 0	-- 0.090	0.5 1.00	--	1.09 --	-- 0.04	
8/02/72 1310	5001 5006	22 C 40A	7.9 7480	--	0.020	0.1 1.00	--	1.02 --	-- 0.01	

TABLE D-6 (CONTINUED)
 NUTRIENT ANALYSIS OF SURFACE WATER

DATE TIME	SAMP LAB	G.H. Q	TEMP TURB	FIELD CO ₂ ALK.	FIELD PH EC	LAB HCO ₃ CO ₃	NUTRIENT NO ₂ NH ₃	CONSTITUENTS IN MILLIGRAMS PER LITER DIS ORG N ORG N OHG N A.H.PO ₄ T PO ₄	D 0-P04 TOT P T 0-P04 TOT P	
E0 S 811.2 158.5 MONTEZUMA SLOUGH AT GRIZZLY ISLAND ROAD										
11/24/71 1200	5001 5006		11 C 55A	7.3 7.4	3780	98 0	0.150 0.80	0.4 0.6	-- --	0.95 1.6
2/08/72 1405	5001 5006		9 C 50A	7.2	2940		0.190	1.41	-- --	0.03 0.03
5/05/72 1300	5001 5006		16 C 60A	7.6 7.4	4560	78 0	0.040	0.5 0.90	-- --	0.03 0.13
8/02/72 1700	5001 5006		22 C 23A	7.9	14200		0.005	0.005 0.80	-- --	0.01 0.11
E0 S 811.5 207.2 CORDELIA SLOUGH AT UPPER END										
11/24/71 0925	5001 5006		10 C 29A	7.6 7.8	1220	220 0	0.070	0.3 0.77	-- --	0.84 1.03
6/05/72 1045	5001 5006		22 C 65A	7.5 7.7	2880	175 0	0.030	0.5 1.00	-- --	0.06 0.10
8/02/72 1230	5001 5006		19 C 75A	8.0	1640		0.040	0.1 0.90	-- --	0.94 0.06
E0 S 813.6 201.2 HILL SLOUGH AT GRIZZLY ISLAND ROAD										
11/24/71 1245	5001 5006		11 C 60A	7.6 7.6	1720	202 0	0.380	0.8 1.32	-- --	1.7 --
2/08/72 1455	5001 5006		10 C 55A	7.4	2730		1.550	1.8 1.75	-- --	3.3 1.03
5/05/72 1345	5001 5006		16 C 80A	7.6 7.8	3080	181 0	0.070	0.9 1.70	-- --	1.77 0.50
8/02/72 1740	5001 5006		22 C 23A	8.1	12300		0.010	0.01 1.30	-- --	1.31 0.21
E3 2100.51 GREEN VALLEY CREEK AT CORDELIA										
2/08/72 1025	5001 5006		10 C 10A	7.6	265		0.040	0.9 0.38	-- --	0.42 0.08
E4 L 748.1 215.6 LAKE MERRITT AT BOATHOUSE DOCK										
3/14/72 1000	5050 5050		63 F 1A	8.8 7.8	31200	132 0	-- --	0.00 0.3	-- --	0.18 0.22
6/13/72 1115	5050 5050		74 F 1A	8.2 7.7	38000 38100	124 0	-- --	0.00 0.0	-- --	0.12 0.26
9/11/72 1230	5050 5050		72.5F 1A	7.8 7.5	42000 45100	154 0	-- --	0.03 0.6	-- --	0.34 0.56
F8 3100.00 NOYO RIVER NEAR FORT BRAGG										
5/03/72 1400	5050 5050		15.0C 56.0	7.3	136		-- --	0.00 0.1	-- --	0.02 0.02

TABLE D-7
PESTICIDES IN SURFACE WATER AND SEDIMENT

<u>Lab and Sampler Agency Codes</u>	
<u>Pesticides</u>	
5001	- U. S. Bureau of Reclamation
5007	- U. S. Environmental Protection Agency Laboratory at Alameda
5050	- Department of Water Resources
BHC	- Benzene hexachloride
DDE	- Dichloro diphenyl ethane
DDT	- Dichloro diphenyl trichlorethane
PCB	- Polychlorinated biphenol
pp DDD	- Para para isomer of dichloro diphenyl dichloroethane
pp DDE	- Para para isomer of dichloro diphenyl ethane
pp DDT	- Para para isomer of dichloro diphenyl trichloroethane

When two pesticides are reported together with a slash mark separating them (pp DDE/Dieldrin, Simazine/Atrazine, etc.), the reported concentration is an undifferentiated total of the two. Either of the two pesticides could make up the entire total.

TABLE D-7 (Cont.)
PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lob
D1 1003.20	WATSONVILLE SLOUGH NEAR MOUTH AT SHELL ROAD	08-23-72 1115	PCB (Aroclor 1254) Endosulfan (Thiodan I) Unknown as DDT Unknown as DDT Unknown as DDT No organic phosphorus pesticides detected No paraoxons detected	110 65 160 180 490	5050	5050
D1 1075.30	PAJARO RIVER AT THURWACHTER ROAD	04-25-72 1515	Dacthal Dieldrin No PCB's detected Diazinon Methyl Parathion Parathion No paraoxons detected	25 30 5 10 25	5050	5050
		05-23-72 1250	Dieldrin Complex mixture of chlorinated compounds No PCB's detected No organic phosphorus pesticides detected	25 80	5050	5050
		08-23-72 1045	Dacthal Dieldrin pp DDD PCB (Aroclor 1254) Unknown as DDT No organic phosphorus pesticides detected No paraoxons detected	5 5 50 20	5050	5050
D1 1110.20	SALSIPUEDES CREEK AT RIVERSIDE ROAD	08-23-72 1225	PCB (Aroclor 1254) Unknown as DDT Methyl Parathion No paraoxons detected	110 260 15	5050	5050
D1 1250.00	PAJARO RIVER AT CHITTENDEN	08-23-72 1305	PCB (Aroclor 1254) No organic phosphorus pesticides detected No paraoxons detected	50	5050	5050
D1 3220.20	ELKHORN SLOUGH AT BLOHM ROAD	08-22-72 1440	PCB (Aroclor 1254) No organic phosphorus pesticides detected No paraoxons detected	45	5050	5050
D2 1006.30	TEMBLADERO SLOUGH AT MOLERA ROAD	04-25-72 1415	Dacthal Unknown as DDT No PCB's detected Diazinon Methyl Parathion Parathion Nialate (Ethion) No paraoxons detected	1450 20 100 550 2500 1200	5050	5050
		05-23-72 1145	Dacthal Dieldrin Lindane PCB (Aroclor 1254) Unknown as DDT No DDT and metabolites detected No Toxaphene detected Methyl Parathion Parathion Nialate (Ethion) No paraoxons detected	120 730 110 30 130	5050	5050
		08-23-72 0920	Dacthal Dieldrin PCB (Aroclor 1254) Methyl Parathion Parathion Nialate (Ethion) No paraoxons detected	110 100 40 890 100 25	5050	5050
D2 1006.50	OLD SALINAS RIVER ABOVE TEMBLADERO SLOUGH	04-25-72 1430	Dacthal Dieldrin Tetradifon (Tedion) No PCB's detected Methyl Parathion Parathion No paraoxons detected	190 630 180 15 15	5050	5050
		05-23-72 1215	Dacthal Dieldrin Lindane PCB (Aroclor 1254) Unknown as DDT No DDT and metabolites detected	90 1900 160 30 260	5050	5050

TABLE D-7 (Cont.)
PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
D2 1006.50	OLD SALINAS RIVER ABOVE TEMBLADERO SLOUGH (Continued)	05-23-72 1215	No Toxaphene detected Methyl Parathion No paraoxons detected	10	5050	5050
		08-23-72 1000	DDE Dieldrin Unknown as DDT Unknown as DDT Unknown as DDT No PCB's detected Methyl Parathion No paraoxons detected	190 570 150 160 230 1400	5050	5050
D2 1006.60	MERRITT LAKE DRAIN AT PUMP	08-23-72 0850	Dacthal PCB (Aroclor 1254) Methyl Parathion No paraoxons detected	25 80 71,000	5050	5050
D2 1009.20	SALINAS RECLAMATION CANAL BELOW ALISAL SLOUGH	08-23-72 0800	Dacthal PCB (Aroclor 1254) Ethion Methyl Parathion Parathion No paraoxons detected	2100 100 340 180 220	5050	5050
D2 1020.70	SALINAS RECLAMATION CANAL AT AIRPORT WAY	04-25-72 0850	Aldrin Dacthal Dieldrin Endosulfan (Thiodan I and II) No PCB's detected Diazinon Methyl Parathion Parathion Nialate (Ethion) No paraoxons detected	130 1070 220 2600 10 15 340 40	5050	5050
		05-23-72 0722	Aldrin Dacthal DDT Dieldrin Endosulfan (Thiodan) Lindane PCB (Aroclor 1254) Unknown as DDT No Toxaphene detected Methyl Parathion Parathion Nialate (Ethion) Unknown as Parathion No paraoxons detected	20 1200 350 280 1400 130 30 220 65 210 130 35	5050	5050
		08-22-72 0740	Aldrin Dieldrin PCB (Aroclor 1254) PP DDD PP DDE pp DDT Unknown as DDT Methyl Parathion Parathion No paraoxons detected	10 360 25 310 20 60 180 35 170	5050	5050
D2 1030.30	BLANCO DRAIN AT PUMP LIFT	04-25-72 1345	Complex mixture of chlorinated compounds as DDT No PCB's detected Methyl Parathion Parathion No paraoxons detected	1,720 60 60	5050	5050
		05-23-72 0930	DDT Dieldrin Endosulfan (Thiodan) Lindane PCB (Aroclor 1254) Unknown as DDT Unknown as DDT No Toxaphene detected Malathion Methyl Parathion Parathion No paraoxons detected	130 260 360 140 25 100 110 25 60 150	5050	5050
		08-22-72 1225	DDE Dieldrin No PCB's detected Unknown as DDT Unknown as DDT Unknown as DDT Bidrin Parathion No paraoxons detected	130 100 50 120 350 40 15	5050	5050

TABLE D-7 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab	
D2 1110.50	SALINAS RIVER AT TWIN BRIDGES	11-04-71 0700	Dacthal DDT Dieldrin Methoxychlor Unknown as DDT Unknown as DDT PCB (Aroclor 1260)	160 80 32 56 38 56 130	Complex chlorinated compounds as DDT DDD DDE Dieldrin Unknown as DDT PCB (Aroclor 1254)	320 74 65 12 5 21	5050 5050
		04-25-72 1015	Dacthal Dieldrin Tetradifon (Tedion) No PCB's detected Diazinon Methyl Parathion Parathion No paraoxons detected	410 2600 250 No 5 20 30		5050 5050	
		05-23-72 1000	Dacthal Dieldrin Unknown as DDT No DDT and metabolites detected No PCB's detected No Toxaphene detected Methyl Parathion Parathion No paraoxons detected	100 1600 220 No No 5 25 No		5050 5050	
		08-22-72 1300	Dacthal Dieldrin PCB (Aroclor 1254) Fenthion (Baytex) Methyl Parathion Parathion No paraoxons detected	520 230 40 300 50 40 No		5050 5050	
D2 1110.70	SALINAS RIVER 1.9 MILES ABOVE HIGHWAY 1 BRIDGE	11-04-71 0615	Dacthal Dieldrin Unknown as DDT Unknown as DDT PCB (Aroclor 1254)	250 37 33 100 48	DDD DDE Dieldrin Unknown as DDT PCB (Aroclor 1254)	60 5050 5050 65 21 13 26	
D2 1120.50	SALINAS RIVER AT BLANCO DRAIN	11-04-71 0850	Aldrin Dacthal Dieldrin Unknown as DDT PCB (Aroclor 1254)	5 390 60 60 38	Complex chlorinated compounds as DDT DDD DDE DDT Dieldrin PCB (Aroclor 1254)	5050 5050 104 29 23 7 28 8	
D2 1150.30	SALINAS RIVER AT BLANCO ROAD	11-04-71 0745	Aldrin Dacthal DDT Toxaphene Unknown as DDT PCB (Aroclor 1254)	29 360 440 4200 8 55	Complex chlorinated compounds as DDT PCB (Aroclor 1254)	5050 5050 52 1	
		08-22-72 1200	Dacthal Dieldrin Unknown as DDT PCB (Aroclor 1254) Fenthion (Baytex) Malathion Parathion No paraoxons detected	3600 700 400 60 180 260 110 No		5050 5050	
D2 1160.20	SALINAS RIVER AT DAVIS ROAD	11-04-71 0820	Aldrin Dacthal DDT Toxaphene Unknown as DDT No PCB's detected	26 340 150 3800 18	Complex chlorinated compounds as DDT DDT Toxaphene PCB (Aroclor 1254)	5050 5050 18 5 49 2	
		08-22-72 1010	Dacthal Endosulfan (Thiodan I and II) PCB (Aroclor 1254) Unknown as DDT Fenthion (Baytex) Malathion Methyl Parathion Parathion Unknown as Parathion No paraoxons detected	7000 3800 90 530 65 270 130 1000 130 No		5050 5050	
D2 1325.10	SALINAS RIVER NEAR GONZALES	04-25-72 1220	Dieldrin No PCB's detected Diazinon Parathion No paraoxons detected	10 No 45 55		5050 5050	

TABLE D-7 (Cont.)
PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Samp	Lab
D2 1325.10	SALINAS RIVER NEAR GONZALES (Continued)	05-23-72 0815	Dieldrin Lindane No DDT and metabolites detected No PCB's detected No Toxaphene detected No organic phosphorus pesticides detected	40 65	5050	5050
		08-22-72 0835	Dacthal Dieldrin PCB (Aroclor 1254) pp DDD pp DDT No organic phosphorus pesticides detected No paraoxons detected	10 10 30 10 3 5	5050	5050
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	11-24-71 1230	Lindane Heptachlor	3 2	5050	5050
		01-24-72 1430	Unknown as DDT Simazine/Atrazine PCB (Aroclor 1260)	25 25 30	5050	5050
		03-20-72 1230	Unknown as DDT	15	5050	5050
		05-16-72 1045	DDT Dieldrin Simazine/Atrazine Unknown as DDT	3 10 10 10	5050	5050
		07-11-72 0900	pp DDD pp DDT	15 5	5050	5050
		09-11-72 1000	No chlorinated pesticides detected		5050	5050
EO B 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	11-24-71 1345	Unknown as DDT	5	5050	5050
		01-24-72 1515	Unknown as DDT Simazine/Atrazine Complex mixture of chlorinated compounds as DDT	15 10 20	5050	5050
		03-20-72 1330	Unknown as DDT	30	5050	5050
		05-16-72 1145	Dieldrin Simazine/Atrazine	10 15	5050	5050
		07-11-72 0930	No chlorinated pesticides detected		5050	5050
		09-11-72 0915	No chlorinated pesticides detected		5050	5050
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	11-24-71 1045	No chlorinated pesticides detected		5050	5050
		01-24-72 1245	Unknown as DDT BHC Simazine/Atrazine PCB (Aroclor 1260)	19 1 5 25	5050	5050
		03-20-72 1045	Unknown as DDT	5	5050	5050
		05-16-72 0950	Unknown as DDT Dieldrin	2 5	5050	5050
		07-11-72 0730	No chlorinated pesticides detected		5050	5050
		09-11-72 0915	No chlorinated pesticides detected		5050	5050
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ	11-17-71 1415	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007
		12-13-71 1245	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007

TABLE D-7 (Cont.)

PESTICIDES IN SURFACE WATER AND SEDIMENT

Station Number	Station	Date Time	Pesticides in Water (nanograms per liter)	Pesticides in Sediment (micrograms per liter of dry weight)	Somp	Lab
EO B 802.3 207.1	SUISUN BAY OFF BULLS HEAD POINT AT MARTINEZ (Continued)	01-10-72 1235	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007
		02-11-72 1245	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007
		06-07-72 1325	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007
		07-07-72 1530	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007
		08-07-72 1515	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007
		09-07-72 1625	Aldrin BHC DDE DDT Dieldrin Heptachlor Heptachlor Epoxide Toxaphene	<3 <3 <3 <10 <3 <3 <3 <100	5001	5007
E4 L 748.1 215.6	LAKE MERRITT AT BOATHOUSE DOCK, OAKLAND	03-14-72 1000	Simazine/Atrazine Unknown as DDT	120 25	5050	5050
		06-13-72 1115	Dacthal Unknown as DDT	5 10	5050	5050
		09-11-72 1230	Dieldrin Unknown as DDT	20 15		
			No chlorinated pesticides detected		5050	5050
F8 2100.00	NAVARRO RIVER NEAR NAVARRO	05-04-72 0830	Dacthal Dieldrin Unknown as DDT Unknown as DDT Unknown as DDT Unknown as Parathion Unknown as Parathion Unknown as Parathion	25 40 25 20 20 90 20 5	5050	5050
F8 3100.00	NOYO RIVER NEAR FORT BRAGG	05-03-72 1400	BHC Dacthal Dieldrin Unknown as DDT Diazinon Unknown as Parathion Unknown as Parathion	20 25 30 25 5 75 10	5050	5050

TABLE D-8

DAILY MAXIMUM AND MINIMUM AND MONTHLY AVERAGE WATER TEMPERATURESD2 1325.10 SALINAS RIVER NEAR GONZALES
(October 1971 through September 1972)

(In Degrees Fahrenheit)

Day	October		November		December		January		February		March		April		May		June		July		August		September		
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	
1	66	51	NR	NR	51	39	46	35	46	40	NF	NF	63	52	79	43	70	51	73	56	77	59	74	61	
2	67	50	NR	NR	50	44	49	37	52	34	NF	NF	59	55	77	46	71	52	74	58	75	58	75	61	
3	69	52	NR	NR	43	40	47	37	54	38	NF	NF	59	57	65	47	71	53	76	58	73	58	76	63	
4	70	54	NR	NR	48	38	44	34	50	41	NF	NF	59	58	67	50	74	53	77	59	76	59	70	63	
5	71	54	NR	NR	50	37	44	33	54	46	NF	NF	58	57	63	48	79	56	76	58	77	58	75	62	
6	70	55	NR	NR	50	48	47	35	56	47	NF	NF	58	56	64	45	73	57	75	58	77	59	73	61	
7	70	58	NR	NR	46	40	45	39	58	43	NF	NF	63	55	67	48	70	57	76	55	75	59	72	60	
8	71	58	NR	NR	43	34	45	39	54	47	NF	NF	60	54	69	49	72	55	78	54	78	61	73	60	
9	70	56	NR	NR	44	38	46	37	58	49	NF	NF	58	54	68	48	70	52	76	55	76	64	73	61	
10	67	53	61	52	42	36	47	37	60	50	NF	NF	61	51	71	49	71	51	75	52	78	66	71	59	
11	69	50	57	50	49	38	46	38	59	48	NF	NF	66	54	75	51	74	50	78	56	78	61	70	57	
12	76	49	57	49	43	38	47	38	59	46	NF	NF	60	54	78	55	76	52	81	56	75	60	70	56	
13	72	51	55	46	47	37	51	38	57	50	NF	NF	62	50	78	55	74	54	88	54	73	58	70	57	
14	64	52	56	43	43	36	51	37	56	45	NF	NF	65	49	75	57	74	55	87	58	71	56	68	59	
15	59	49	52	42	45	38	54	33	59	47	NF	NF	67	51	76	58	74	52	74	57	71	58	70	59	
16	55	49	53	43	42	41	55	39	59	48	NF	NF	67	55	73	56	71	49	78	62	73	57	69	59	
17	59	46	53	36	42	41	54	42	63	42	NF	NF	64	49	71	55	73	49	78	61	75	63	68	57	
18	61	45	52	39	43	35	52	45	61	48	NF	NF	63	47	69	50	71	54	78	63	73	60	68	55	
19	63	44	52	38	42	33	51	46	65	45	NF	NF	65	48	64	50	72	55	72	57	75	59	71	58	
20	63	44	49	40	44	33	51	46	68	44	NF	NF	65	46	64	51	73	55	74	56	78	63	72	55	
21	70	42	49	38	47	34	53	49	65	50	NF	NF	67	50	72	56	72	56	75	57	79	62	72	57	
22	64	42	54	43	48	45	52	50	65	47	NF	NF	69	51	72	55	73	56	75	55	78	62	71	59	
23	NR	NR	50	44	50	47	52	49	56	39	NF	NF	68	52	69	55	72	55	74	59	75	62	68	54	
24	NR	NR	52	41	50	46	50	44	58	40	67	42	67	52	69	50	72	48	76	59	73	59	68	54	
25	NR	NR	50	45	46	42	47	43	58	41	66	47	69	47	71	54	73	51	76	58	75	60	67	52	
26	NR	NR	49	44	45	43	47	41	NF	NF	63	39	75	47	72	55	75	56	77	58	76	62	72	60	
27	NR	NR	57	49	46	40	48	40	NF	NF	63	39	71	49	74	55	77	57	79	58	74	62	72	60	
28	NR	NR	56	51	45	40	49	44	NF	NF	61	41	65	42	77	55	77	58	78	60	74	63	75	62	
29	NR	NR	56	50	45	37	48	42	NF	NF	62	45	72	38	76	55	79	58	77	60	77	63	76	61	
30	NR	NR	53	47	45	36	48	40			64	46	76	38	74	54	81	56	78	60	78	63	67	59	
31	NR	NR			45	37	49	39			61	48			70	51			78	58	77	64			
Max	NR	NR			51		55		NF		NF			76		79		81		88		79		76	
Min	NR	NR			33		33		NF		NF			38		43		48		52		56		52	
Avg	NR	NR			42		44		NF		NF			57		62		63		67		68		65	

Day	October		November		December		January		February		March		April		May		June		July		August		September	
	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min

TABLE D-9

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

DO 1180.01 SAN LORENZO RIVER AT PARADISE PARK
(October 1971 through September 1972)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	365	360	362	365	360	360	400	400	400	257	255	255	260	256	258	375	370	370
2	365	360	362	370	360	365	400	350	385	260	255	257	NR	NR	NR	375	360	370
3	365	360	362	370	365	370	355	305	325	260	257	260	NR	NR	NR	380	365	370
4	365	360	365	370	365	370	370	310	340	265	257	260	NR	NR	NR	380	360	370
5	370	360	365	370	365	370	380	355	370	265	257	260	266	182	206	375	370	370
6	390	360	365	370	360	365	365	350	360	265	260	260	204	182	195	375	370	375
7	370	365	370	370	360	365	385	365	375	260	257	260	NR	NR	NR	380	370	375
8	365	360	360	365	355	360	385	385	380	266	260	266	NR	NR	NR	380	370	375
9	365	360	360	365	360	360	385	375	380	264	262	264	NR	NR	NR	380	370	375
10	370	360	365	365	360	360	375	360	370	264	262	262	NR	NR	NR	375	365	370
11	370	360	365	405	302	350	385	360	375	266	262	264	NR	NR	NR	380	370	375
12	370	360	365	420	380	495	385	235	320	266	262	264	NR	NR	NR	380	365	370
13	370	360	365	420	242	335	385	300	355	270	266	268	NR	NR	NR	375	375	375
14	370	360	365	420	315	385	370	345	355	270	268	270	NR	NR	NR	380	375	375
15	365	355	360	415	405	410	355	345	350	272	268	270	NR	NR	NR	380	375	380
16	370	360	365	415	385	400	365	345	360	270	268	270	NR	NR	NR	385	375	380
17	380	370	375	415	385	405	370	360	365	272	268	270	NR	NR	NR	380	375	380
18	380	355	365	415	395	405	370	360	365	274	268	272	NR	NR	NR	380	380	380
19	365	340	360	415	390	400	365	360	365	278	272	276	NR	NR	NR	380	375	380
20	360	355	355	410	400	405	370	365	365	278	274	276	NR	NR	NR	380	375	375
21	355	350	355	400	390	395	370	288	360	278	274	276	NR	NR	NR	385	375	380
22	360	350	355	405	380	395	305	204	265	280	272	276	NR	NR	NR	380	370	375
23	360	350	355	405	380	395	310	260	285	276	268	272	NR	NR	NR	380	380	380
24	360	360	360	395	390	390	320	206	295	272	268	270	NR	NR	NR	385	380	380
25	365	360	360	400	385	395	206	186	192	270	218	246	370	360	365	380	370	375
26	370	360	365	380	375	380	222	196	212	246	222	240	370	365	365	380	375	375
27	370	365	350	375	370	370	199	170	178	228	199	206	370	365	365	375	370	375
28	370	360	365	380	375	380	222	190	208	218	200	208	375	365	370	370	370	370
29	370	360	365	395	375	390	240	222	232	234	218	228	370	360	365	375	370	375
30	370	360	365	405	395	400	248	238	244	248	234	242	NR	NR	NR	380	375	380
31	365	360	360				250	246	248	256	248	252				380	380	380

Day	April			May			June			July			August			September			
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	
1	380	380	380	370	365	370	385	375	380	398	370	380	370	355	360	365	360	360	360
2	380	375	380	375	370	370	380	370	375	380	370	375	370	355	360	370	360	365	365
3	380	375	380	380	370	375	380	370	375	375	365	370	NR	NR	NR	370	350	360	
4	380	380	380	375	365	370	380	365	370	370	360	365	NR	NR	NR	365	355	360	
5	385	330	375	370	365	365	380	365	370	375	365	370	NR	NR	NR	360	355	360	
6	375	325	350	370	365	365	380	370	375	375	365	370	NR	NR	NR	360	350	355	
7	375	360	370	370	360	365	380	365	370	375	365	370	NR	NR	NR	375	350	360	
8	365	360	360	365	360	365	375	360	365	370	360	365	NR	NR	NR	360	350	355	
9	370	360	365	370	365	370	NR	NR	NR	370	360	365	NR	NR	NR	360	350	355	
10	375	370	370	375	370	375	NR	NR	NR	370	360	365	NR	NR	NR	360	350	355	
11	360	330	350	380	375	380	NR	NR	NR	370	360	365	NR	NR	NR	365	350	360	
12	360	290	340	380	380	380	NR	NR	NR	370	360	365	NR	NR	NR	360	350	355	
13	340	290	320	380	375	380	NR	NR	NR	370	355	360	NR	NR	NR	375	345	360	
14	350	320	330	375	375	375	NR	NR	NR	370	365	360	NR	NR	NR	370	355	360	
15	350	350	350	375	370	370	NR	NR	NR	370	355	365	NR	NR	NR	370	355	360	
16	355	350	350	375	370	370	NR	NR	NR	370	355	365	NR	NR	NR	370	355	360	
17	355	350	355	375	370	375	375	370	370	365	350	355	NR	NR	NR	365	355	360	
18	360	355	360	375	370	370	375	370	370	360	345	350	NR	NR	NR	370	355	365	
19	365	360	365	375	370	370	365	370	370	360	345	350	NR	NR	NR	365	355	360	
20	360	360	360	370	355	350	370	365	370	360	350	355	NR	NR	NR	380	350	365	
21	370	360	365	365	360	360	375	370	370	355	350	350	NR	NR	NR	380	350	365	
22	370	365	365	365	360	365	375	365	370	370	350	355	NR	NR	NR	380	370	375	
23	370	360	365	375	370	370	375	365	370	370	350	355	NR	NR	NR	375	370	370	
24	365	340	355	375	370	370	375	370	370	360	350	355	NR	NR	NR	380	365	370	
25	370	355	365	365	370	370	375	370	370	360	350	355	NR	NR	NR	360	365	360	
26	370	365	370	365	370	370	375	370	370	370	355	360	360	350	355	360	350	355	
27	370	365	370	380	370	375	375	365	370	370	360	365	360	350	355	372	310		
28	380	370	375	380	370	375	370	365	370	370	360	365	360	355	355	420	340	390	
29	375	370	375	385	370	375	375	365	370	370	360	365	360	355	355	420	410	420	
30	375	370	370	380	370	375	380	370	375	370	360	365	365	355	360	410	400	405	
31				380	375	380	375	380	370	370	360	365	365	355	360	360			

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

DL 1250.00 PAJARO RIVER NEAR CHITTENDEN
(October 1971 through September 1972)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	NR	NR	NR	1,950	1,500	1,808	1,700	1,680	1,684	NR	NR	NR	NR	1,280	1,300	1,480	1,430	1,447
2	NR	NR	NR	1,920	1,860	1,894	1,680	1,580	1,626	NR	NR	NR	NR	1,330	1,320	1,430	1,420	1,424
3	NR	NR	NR	1,950	1,900	1,913	1,605	1,585	1,593	NR	NR	NR	NR	1,330	1,320	1,470	1,440	1,460
4	NR	NR	NR	1,960	1,950	1,952	1,590	1,575	1,582	NR	NR	NR	NR	1,350	1,320	1,510	1,470	1,484
5	NR	NR	NR	1,960	1,950	1,959	1,575	1,535	1,548	1,520	1,510	1,515	1,340	850	1,173	1,520	1,512	
6	NR	NR	NR	1,950	1,920	1,931	1,650	1,580	1,614	1,515	1,510	1,511	1,110	650	885	1,530	1,520	1,524
7	NR	NR	NR	1,920	1,800	1,856	1,690	1,640	1,667	1,510	1,500	1,508	780	740	773	1,530	1,520	1,527
8	NR	NR	NR	1,840	1,730	1,797	1,725	1,690	1,707	NR	NR	NR	860	780	813	1,600	1,520	1,550
9	NR	NR	NR	1,800	1,700	1,756	1,725	1,730	1,735	NR	NR	NR	960	870	905	1,600	1,520	1,554
10	NR	NR	NR	1,820	1,750	1,808	NR	NR	NR	NR	NR	NR	1,040	970	1,005	1,600	1,520	1,557
11	NR	NR	NR	1,820	1,770	1,796	NR	NR	NR	NR	NR	NR	1,120	1,040	1,078	1,600	1,550	1,578
12	NR	NR	NR	1,810	1,720	1,771	NR	NR	NR	NR	NR	NR	1,170	1,120	1,145	1,660	1,530	1,557
13	NR	NR	NR	1,800	1,770	1,786	NR	NR	NR	NR	NR	NR	1,190	1,170	1,177	1,720	1,690	1,700
14	NR	NR	NR	1,820	1,795	1,810	NR	NR	NR	NR	NR	NR	2,120	1,190	1,230	1,800	1,600	1,657
15	1,920	1,890	1,904	1,830	1,815	1,822	NR	NR	NR	NR	NR	NR	1,270	1,210	1,234	2,310	1,840	2,128
16	1,910	1,630	1,838	1,865	1,820	1,840	NR	NR	NR	NR	NR	NR	1,320	1,270	1,298	2,280	1,960	2,166
17	1,640	1,440	1,515	1,835	1,805	1,823	NR	NR	NR	NR	NR	NR	1,340	1,320	1,326	2,280	2,000	2,166
18	1,590	1,390	1,457	1,840	1,810	1,830	NR	NR	NR	NR	NR	NR	1,360	1,320	1,343	2,100	1,520	1,662
19	1,840	1,390	1,573	1,940	1,840	1,877	NR	NR	NR	NR	NR	NR	1,410	1,340	1,361	1,650	1,650	1,678
20	1,940	1,870	1,916	1,950	1,940	1,942	NR	NR	NR	NR	NR	NR	1,410	1,390	1,404	1,700	1,660	1,678
21	1,960	1,600	1,889	1,955	1,945	1,951	NR	NR	NR	NR	NR	NR	1,460	1,370	1,408	1,750	1,700	1,722
22	1,550	1,470	1,512	1,955	1,950	1,953	NR	NR	NR	NR	NR	NR	1,450	1,360	1,396	1,780	1,680	1,715
23	2,050	1,520	1,909	1,925	1,900	1,916	NR	NR	NR	NR	NR	NR	1,400	1,340	1,370	1,860	1,780	1,802
24	2,050	2,050	2,050	1,920	1,905	1,911	NR	NR	NR	NR	NR	NR	1,400	1,370	1,380	1,950	1,870	1,903
25	2,050	2,030	2,034	1,965	1,870	1,912	NR	NR	NR	NR	NR	NR	1,380	1,350	1,368	1,850	1,630	1,729
26	2,040	2,000	2,006	1,865	1,855	1,858	NR	NR	NR	NR	NR	NR	1,400	1,370	1,384	1,630	1,490	1,541
27	2,050	1,960	2,015	1,850	1,810	1,828	NR	NR	NR	NR	NR	NR	1,400	1,370	1,386	1,580	1,480	1,525
28	2,000	1,500	1,691	1,810	1,790	1,798	NR	NR	NR	NR	NR	NR	1,480	1,370	1,401	1,700	1,590	1,647
29	1,660	1,470	1,522	1,760	1,730	1,743	NR	NR	NR	NR	NR	NR	1,480	1,460	1,472	1,690	1,580	1,632
30	1,570	1,470	1,503	1,730	1,705	1,716	NR	NR	NR	NR	NR	NR	NR	NR	NR	1,630	1,500	1,566
31	1,600	1,500	1,529	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	1,710	1,610	1,647

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg									
1	1,690	1,680	1,682	NR	NR	NR	1,730	1,730	1,730	1,700	1,670	1,685	2,410	2,110	2,263	2,480	2,420	2,436
2	1,760	1,700	1,714	NR	NR	NR	1,730	1,730	1,730	1,700	1,650	1,687	2,360	2,060	2,204	2,480	2,340	2,423
3	1,760	1,720	1,738	NR	NR	NR	1,730	1,710	1,721	1,700	1,640	1,668	2,330	2,040	2,163	2,430	2,230	2,342
4	1,760	1,750	1,756	NR	NR	NR	1,740	1,710	1,722	1,740	1,700	1,725	2,400	2,080	2,184	2,520	2,420	2,481
5	1,760	1,750	1,758	NR	NR	NR	1,750	1,750	1,750	1,730	1,722	1,722	2,430	2,100	2,190	2,560	2,360	2,461
6	1,740	1,710	1,717	NR	NR	NR	1,760	1,750	1,751	1,700	1,700	1,700	2,630	1,780	2,289	2,570	2,470	2,530
7	1,760	1,710	1,728	NR	NR	NR	1,810	1,760	1,788	1,770	1,700	1,754	2,230	1,630	1,845	2,560	2,420	2,500
8	1,780	1,760	1,767	NR	NR	NR	1,840	1,770	1,800	1,860	1,770	1,786	2,740	2,110	2,302	2,400	2,320	2,370
9	1,780	1,780	1,780	NR	NR	NR	1,890	1,790	1,852	1,920	1,820	1,856	2,340	1,750	2,141	2,370	2,270	2,327
10	1,810	1,790	1,804	NR	NR	NR	2,040	1,860	1,908	2,070	1,920	1,997	2,400	1,950	2,155	2,380	2,370	2,375
11	1,810	1,800	1,805	NR	NR	NR	2,140	2,050	2,124	2,170	2,070	2,118	2,700	2,300	2,474	2,420	2,400	2,410
12	1,930	1,750	1,823	NR	NR	NR	2,140	2,120	2,128	2,380	2,170	2,288	2,900	2,550	2,727	2,420	2,320	2,370
13	1,770	1,700	1,736	NR	NR	NR	2,170	2,120	2,144	2,480	2,200	2,315	2,850	2,750	2,793	2,470	2,320	2,385
14	1,850	1,770	1,809	NR	NR	NR	2,250	2,120	2,199	2,560	2,230	2,352	2,970	2,870	2,930	2,500	2,290	2,408
15	1,920	1,860	1,897	NR	NR	NR	2,120	2,040	2,070	2,680	2,240	2,309	2,820	2,700	2,772	2,470	2,320	2,413
16	1,940	1,900	1,923	NR	NR	NR	2,020	1,950	1,988	2,660	2,460	2,512	2,820	2,570	2,676	2,470	2,360	2,408
17	1,950	1,890	1,920	2,100	2,000	2,024	2,110	1,970	2,030	2,560	2,480	2,491	2,770	2,570	2,673	2,470	2,370	2,412
18	2,030	1,900	1,948	2,050	1,960	1,999	2,130	2,120	2,122	2,580	2,380	2,478	2,990	2,780	2,890	2,380	2,300	2,369
19	2,080	1,950	2,014	1,990	1,850	1,938	2,270	2,140	2,201	2,560	2,230	2,445	2,990	2,740	2,869	2,300	2,230	2,270
20	2,010	1,950	1,990	1,900	1,850	1,880	2,220	2,120	2,148	2,500	2,250	2,387	3,000	1,540	2,692	2,380	2,270	2,328
21	2,000	1,910	1,969	1,900	1,890	1,899	2,120	2,070	2,110	2,500	2,400	2,433	2,600	2,490	2,532	2,300	2,250	2,274
22	2,030	1,940	1,993	1,890	1,850	1,862	2,110	2,050	2,079	2,400	2,300	2,345	2,550	2,390	2,495	2,220	2,180	2,196
23	2,060	2,000	2,017	1,850	1,810	1,837	2,040	2,000	2,017	2,390	2,280	2,325	2,480	2,330	2,429	2,170	2,080	2,138
24	2,060	1,940	1,985	1,800	1,800	1,800	2,020	2,010	2,013	2,490	2,300	2,388	2,430	2,230	2,335	2,160	2,130	2,145
25	NR	NR	NR	1,800	1,750	1,769	2,010	1,960	1,978	2,510	2,380	2,456	2,480	2,230	2,368	2,180	2,100	2,138
26	NR	NR	NR	1,800	1,750	1,782	1,960	1,940	1,957	2,450	2,380	2,422	2,530	2,320	2,450	2,370	2,160	2,268
27	NR	NR	NR	1,790	1,780	1,785	1,920	1,860	1,891	2,410	2,210	2,320	2,530	2,320	2,520	2,300	2,185	2,108
28	NR	NR	NR	1,790	1,740	1,755	1,860	1,770	1,821	2,410	2,160	2,319	2,530	2,470	2,499	2,180	2,080	2,108
29	NR	NR	NR	1,740	1,700	1,721	1,800	1,790	1,795	2,560	2,210	2,385</td						

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D2 1006.60 MERRITT LAKE DRAIN AT PUMP
(October 1971 through September 1972)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	1,180	900	1,045	NR	NR	NR	NR	NR	NR	1,140	1,130	1,132	1,020	880	998	1,397	1,277	1,331
2	1,300	1,050	1,126	NR	NR	NR	NR	NR	NR	1,160	1,140	1,149	1,153	1,013	1,077	1,339	1,249	1,311
3	1,480	1,180	1,293	NR	NR	NR	NR	NR	NR	1,250	1,170	1,214	1,375	1,155	1,222	1,322	1,222	1,269
4	1,500	1,150	1,283	NR	NR	NR	NR	NR	NR	1,350	760	1,307	1,398	1,368	1,389	1,274	1,184	1,240
5	1,500	950	1,260	NR	NR	NR	NR	NR	NR	1,570	1,360	1,441	1,371	1,331	1,367	1,277	1,127	1,219
6	1,200	900	1,053	NR	NR	NR	NR	NR	NR	1,640	1,170	1,547	1,313	1,133	1,224	1,270	1,230	1,245
7	1,250	900	1,111	NR	NR	NR	NR	NR	NR	1,710	1,640	1,669	1,126	1,056	1,078	1,212	1,182	1,200
8	1,350	1,100	1,231	NR	NR	NR	NR	NR	NR	1,810	1,620	1,696	1,098	1,028	1,067	1,300	1,200	1,250
9	1,450	800	1,257	NR	NR	NR	NR	NR	NR	1,750	1,640	1,672	1,341	971	1,108	1,400	1,300	1,350
10	1,180	750	997	1,800	1,740	1,760	NR	NR	NR	1,770	1,580	1,657	1,474	1,354	1,432	1,500	1,400	1,450
11	1,180	700	975	1,800	1,700	1,730	NR	NR	NR	1,690	1,460	1,573	1,466	1,106	1,429	1,450	1,350	1,400
12	1,330	850	1,078	2,150	1,800	1,955	NR	NR	NR	1,680	1,550	1,570	1,439	1,139	1,389	1,500	1,450	1,475
13	1,335	700	948	2,310	2,200	2,253	940	850	911	1,390	1,315	1,343	1,472	1,452	1,456	1,400	1,400	1,400
14	NR	NR	NR	2,550	2,390	2,447	960	800	870	1,280	1,080	1,205	1,594	1,224	1,466	1,550	1,400	1,475
15	NR	NR	NR	2,550	2,400	2,458	1,000	940	961	1,340	1,230	1,271	1,567	1,517	1,538	1,400	1,400	1,400
16	NR	NR	NR	2,550	2,350	2,450	1,000	920	939	1,420	1,270	1,341	1,550	1,500	1,530	1,370	1,320	1,345
17	NR	NR	NR	NR	NR	NR	1,000	900	935	1,320	1,110	1,220	1,552	1,402	1,523	1,370	1,320	1,345
18	NR	NR	NR	NR	NR	NR	1,050	940	965	1,260	1,130	1,187	1,545	1,505	1,516	1,320	1,280	1,300
19	NR	NR	NR	NR	NR	NR	1,100	1,000	1,020	1,200	1,180	1,193	1,538	1,488	1,522	1,280	1,270	1,275
20	NR	NR	NR	NR	NR	NR	1,100	970	966	1,220	1,200	1,211	1,550	1,510	1,530	1,320	1,280	1,300
21	NR	NR	NR	NR	NR	NR	1,160	600	945	1,330	1,170	1,245	1,543	1,323	1,448	1,310	1,270	1,290
22	NR	NR	NR	NR	NR	NR	1,160	1,050	1,059	1,370	1,250	1,345	1,425	1,365	1,405	1,320	1,310	1,315
23	NR	NR	NR	NR	NR	NR	1,150	980	1,023	1,350	1,250	1,285	1,418	1,378	1,405	1,320	1,270	1,295
24	NR	NR	NR	NR	NR	NR	980	700	918	1,290	750	1,036	1,421	1,201	1,395	1,320	1,270	1,295
25	NR	NR	NR	NR	NR	NR	950	900	920	920	850	878	1,343	1,303	1,335	1,320	1,290	1,305
26	NR	NR	NR	NR	NR	NR	980	950	974	960	920	945	1,356	1,296	1,332	1,580	1,300	1,480
27	NR	NR	NR	NR	NR	NR	1,040	980	1,000	1,000	950	981	1,319	1,279	1,305	1,590	1,520	1,555
28	NR	NR	NR	NR	NR	NR	1,060	1,050	1,053	880	880	880	1,351	1,211	1,310	1,620	1,570	1,595
29	NR	NR	NR	NR	NR	NR	1,080	1,060	1,065	890	840	872	1,394	1,314	1,365	1,640	1,520	1,580
30	NR	NR	NR	NR	NR	NR	1,170	1,090	1,128	885	870	879	1,397	800	907	1,590	1,510	1,550
31	NR	NR	NR	NR	NR	NR	1,170	1,140	1,150	1,030	800	907	1,397	800	907	1,610	1,530	1,570

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg									
1	1,520	1,460	1,490	1,600	1,520	1,560	2,010	1,960	1,985	3,190	3,110	3,150	2,530	2,480	2,505	4,800	4,700	4,750
2	1,510	1,460	1,485	1,550	1,500	1,525	1,990	1,760	1,875	3,160	3,110	3,220	2,530	2,530	2,530	4,700	4,600	4,650
3	1,660	1,510	1,585	1,600	1,550	1,575	2,080	1,960	2,020	3,120	3,110	3,115	2,420	2,420	2,420	4,900	3,600	4,250
4	1,710	1,660	1,685	1,650	1,550	1,600	2,110	2,070	2,090	3,090	3,010	3,050	2,440	2,370	2,405	4,200	4,000	4,100
5	1,800	1,710	1,755	1,700	1,600	1,650	2,120	2,110	2,115	3,110	3,050	3,080	2,420	2,340	2,380	3,600	3,220	3,410
6	1,730	1,580	1,655	1,700	1,700	2,160	2,120	2,140	3,110	3,050	3,080	2,410	2,320	2,365	3,620	3,280	3,450	
7	1,640	1,580	1,610	1,750	1,650	1,700	2,160	2,110	2,135	3,110	3,060	3,085	2,340	2,320	2,330	3,720	3,110	3,415
8	1,630	1,530	1,580	1,880	1,830	1,855	2,110	1,910	2,010	3,110	3,060	3,085	2,320	2,270	2,295	3,720	3,720	3,720
9	1,580	1,530	1,555	1,880	1,580	1,730	2,000	1,900	1,950	3,060	2,960	3,010	2,320	2,270	2,295	3,720	3,420	3,570
10	1,480	1,380	1,430	1,880	1,840	2,100	2,000	2,050	3,060	2,960	3,010	2,320	2,320	2,320	3,520	3,270	3,395	
11	1,440	1,370	1,405	1,880	1,780	1,830	2,100	2,100	2,100	3,060	2,960	3,010	2,420	2,320	2,370	3,540	3,320	3,430
12	1,650	1,400	1,525	1,880	1,680	1,780	2,130	2,100	2,115	3,010	2,910	2,960	2,470	2,420	2,445	3,340	2,670	3,005
13	1,700	1,650	1,675	1,680	1,580	1,630	2,100	2,100	2,100	2,850	2,750	2,800	2,670	2,570	2,620	3,220	3,040	3,130
14	1,700	1,400	1,550	1,580	1,480	1,530	2,140	2,100	2,120	2,750	2,750	2,750	2,670	2,700	2,700	3,120	2,740	2,930
15	1,650	1,250	1,450	1,480	1,430	1,455	2,150	2,100	2,125	2,800	2,800	2,800	2,670	2,670	2,670	3,020	2,840	2,930
16	1,700	1,600	1,650	1,910	1,610	1,760	2,360	2,260	2,310	2,800	2,800	2,800	2,820	2,720	2,770	3,020	2,870	2,945
17	1,630	1,630	1,630	1,960	1,860	1,910	2,360	2,320	2,340	2,850	2,760	2,805	2,820	2,720	2,770	2,940	2,340	2,640
18	1,630	1,630	1,630	1,960	1,900	1,930	2,360	2,360	2,360	2,800	2,700	2,750	2,920	2,870	2,895	2,920	2,820	2,870
19	1,630	1,580	1,605	1,960	1,950	1,955	2,410	2,380	2,395	2,750	2,750	2,750	3,000	3,000	3,000	2,970	2,770	2,870
20	1,680	1,580	1,630	1,960	1,930	1,945	2,460	2,390	2,425	2,640	2,640	2,640	3,100	3,050	3,075	2,970	2,670	2,820
21	1,670	1,630	1,650	1,980	1,960	1,970	2,460	2,430	2,445	2,640	2,640	2,640	3,100	3,100	3,100	2,770	2,570	2,670
22	1,600	1,565	1,582	2,020	1,840	1,930	2,470	2,440	2,455	2,650	2,640	2,645	3,100	3,100	3,100	2,770	2,000	2,385
23	1,625	1,555	1,590	2,060	2,050	2,065	2,670	2,620	2,645	2,740	2,640	2,690	3,100	3,050	3,050	2,300	2,200	2,250
24	1,625	1,615	1,620	2,100	2,060	2,080	2,720	2,640	2,680	2,660	2,590	2,625	3,100	3,000	3,050	2,400	2,200	2,300
25	1,615	1,555	1,585	2,210	2,110	2,160	2,860	2,760	2,810	2,640	2,590	2,615	3,100	3,000	3,050	2,600	2,150	2,275
26	1,615	1,565	1,590	2,140	2,100	2,120	2,810	2,760	2,785	2,640	2,590	2,615	3,150	3,100	3,125	2,200	2,000	2,100
27	1,560	1,520	1,540	2,110	2,020	2,065	2,860	2,760	2,810	2,520	2,450	2,485	3,200	3,100	3,150	2,430	2,000	2,215
28	1,65																	

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D2 1016.50 SALINAS RECLAMATION CANAL AT ALISAL S.T.P.
(October 1971 through September 1972)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	1,580	1,420	1,502	1,300	1,100	1,183	1,915	1,395	1,497	1,600	980	1,247	1,130	1,040	1,078	1,200	1,000	1,128
2	1,500	1,290	1,422	1,420	1,250	1,327	2,315	460	1,276	1,500	980	1,218	1,120	1,030	1,067	1,400	1,150	1,231
3	1,320	1,260	1,275	1,470	1,310	1,390	1,625	1,055	1,356	1,450	1,200	1,330	1,320	1,030	1,090	1,520	1,400	1,436
4	1,720	1,400	1,576	1,400	1,300	1,347	1,515	1,415	1,459	1,500	1,400	1,479	1,120	990	1,017	1,520	1,420	1,466
5	1,670	1,500	1,589	1,350	1,280	1,311	1,515	1,515	1,515	1,650	1,420	1,495	1,020	350	872	1,520	1,320	1,318
6	1,580	1,440	1,530	1,360	1,300	1,318	NR	NR	NR	3,720	990	1,526	900	440	654	1,420	1,200	1,356
7	1,680	1,440	1,547	1,360	1,300	1,314	NR	NR	NR	2,920	1,320	1,491	1,420	600	974	1,270	1,080	1,199
8	1,830	1,500	1,622	1,500	1,350	1,444	NR	NR	NR	4,020	1,140	1,480	1,720	1,060	1,186	2,280	1,230	1,502
9	1,950	1,750	1,838	1,450	1,410	1,444	NR	NR	NR	1,470	1,020	1,189	1,520	1,040	1,123	1,930	1,050	1,316
10	1,870	1,710	1,780	1,875	1,440	1,529	NR	NR	NR	2,120	220	1,224	1,380	980	1,084	2,230	1,230	1,447
11	2,100	1,850	1,942	1,665	1,015	1,347	NR	NR	NR	2,240	1,120	1,540	1,820	690	1,131	1,730	970	1,203
12	2,000	1,700	1,859	1,535	435	816	NR	NR	NR	3,320	1,040	1,283	1,150	650	880	1,280	830	1,110
13	2,000	1,800	1,869	1,615	575	1,051	1,750	1,600	1,681	1,380	920	1,199	1,390	880	971	1,190	810	1,085
14	1,850	1,420	1,605	1,315	1,115	1,220	2,420	1,200	1,582	3,120	1,100	1,482	1,720	740	1,131	1,510	1,290	1,425
15	1,800	1,300	1,518	1,365	1,180	1,270	2,050	1,250	1,570	1,620	980	1,247	1,220	920	1,031	1,510	1,360	1,414
16	1,650	1,300	1,482	1,565	1,335	1,439	1,850	1,400	1,565	1,370	1,040	1,221	1,050	780	890	1,510	1,310	1,391
17	2,400	1,100	1,274	1,615	1,515	1,570	1,600	1,450	1,497	1,420	1,020	1,207	1,030	820	922	1,360	1,090	1,262
18	1,600	1,160	1,458	1,615	1,515	1,566	1,550	1,450	1,454	1,970	1,060	1,417	960	760	898	1,110	990	1,046
19	1,650	1,450	1,465	1,625	1,465	1,508	1,650	1,550	1,558	1,520	1,320	1,427	920	780	844	1,070	990	1,008
20	1,650	1,300	1,514	1,650	1,565	1,599	1,570	1,540	1,547	1,380	1,170	1,301	940	800	882	1,400	990	1,240
21	1,700	1,250	1,408	1,615	1,515	1,568	1,600	300	1,343	1,660	1,320	1,507	1,040	900	953	1,550	1,460	1,515
22	1,360	1,080	1,236	1,615	1,485	1,557	1,350	300	721	1,770	1,420	1,595	1,020	960	991	1,990	1,420	1,586
23	1,450	1,120	1,239	1,565	1,490	1,519	1,600	1,000	1,380	1,770	350	881	1,170	960	1,052	1,790	1,290	1,550
24	1,400	1,350	1,365	1,575	1,455	1,509	4,200	280	1,154	1,090	970	1,020	1,330	1,080	1,238	1,590	1,190	1,354
25	1,550	1,320	1,444	1,515	1,455	1,421	1,600	180	912	1,520	330	827	1,350	1,040	1,229	1,340	1,190	1,252
26	1,500	1,250	1,332	1,515	1,465	1,472	1,250	300	989	990	350	704	980	810	870	1,250	1,070	1,205
27	1,250	1,140	1,214	1,555	1,425	1,467	840	280	559	970	170	525	850	780	808	1,540	1,010	1,341
28	1,260	1,170	1,236	1,465	215	726	1,120	860	1,027	1,220	650	926	1,270	850	1,112	1,890	1,450	1,703
29	1,370	1,190	1,278	2,115	635	1,183	1,700	800	1,158	1,400	1,030	1,243	1,000	900	955	1,930	1,700	1,795
30	1,400	1,200	1,298	2,115	1,215	1,485	1,600	1,000	1,276	1,370	1,070	1,281	1,420	830	1,161	1,820	1,720	1,765
31	1,300	1,120	1,186				1,600	1,100	1,343	1,450	1,420	1,161				1,770	1,650	1,708

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg									
1	1,770	1,630	1,678	1,240	940	1,106	1,340	1,280	1,313	1,440	1,300	1,338	1,690	1,440	1,551	1,320	1,180	1,254
2	1,670	1,500	1,569	1,290	960	1,098	1,480	1,380	1,420	1,320	1,200	1,244	1,590	1,460	1,516	1,220	1,120	1,190
3	1,930	1,470	1,643	1,780	920	1,128	1,480	1,230	1,331	1,445	1,220	1,306	1,760	1,630	1,700	1,220	1,050	1,106
4	2,020	1,920	1,982	1,530	830	1,113	1,480	940	1,033	1,320	1,200	1,245	1,830	1,640	1,732	1,620	1,070	1,176
5	2,020	1,800	1,855	1,280	880	1,134	1,580	940	1,098	1,375	1,185	1,242	1,780	1,560	1,708	1,520	1,150	1,306
6	1,920	1,770	1,845	1,430	1,030	1,197	1,260	940	1,102	2,200	1,100	1,432	1,540	1,360	1,421	1,420	1,320	1,336
7	1,920	1,870	1,907	1,080	790	930	1,580	1,020	1,192	1,950	1,150	1,273	1,730	1,380	1,588	1,470	1,320	1,397
8	1,900	1,810	1,864	1,330	810	1,136	1,700	1,060	1,285	2,000	1,080	1,264	1,730	1,600	1,655	1,520	1,320	1,433
9	1,810	1,690	1,718	1,430	1,310	1,357	1,750	900	1,244	1,190	840	978	1,630	1,430	1,555	1,520	1,330	1,400
10	1,810	1,630	1,724	1,580	1,180	1,240	1,900	1,000	1,262	1,500	880	1,200	2,230	1,430	1,612	1,420	1,150	1,294
11	1,770	1,200	1,506	1,480	1,080	1,232	1,200	880	1,011	1,310	1,150	1,215	2,030	1,430	1,596	1,270	1,100	1,196
12	1,800	700	1,130	1,530	960	1,204	1,550	820	1,118	1,300	1,200	1,230	1,830	1,480	1,551	1,570	1,120	1,298
13	2,000	700	1,103	1,230	1,120	1,195	1,300	1,050	1,135	1,480	1,300	1,355	1,680	1,380	1,468	1,830	1,150	1,454
14	1,250	780	1,092	1,280	1,160	1,200	1,250	940	1,107	1,550	1,330	1,407	1,830	1,260	1,481	1,520	1,320	1,442
15	1,300	740	937	1,530	1,130	1,309	1,250	1,030	1,115	1,470	1,400	1,426	1,680	1,430	1,523	1,570	1,270	1,354
16	1,400	860	1,003	1,480	1,230	1,355	1,715	1,100	1,205	1,450	1,080	1,254	1,580	1,330	1,470	1,620	1,320	1,426
17	1,350	920	1,106	1,460	1,220	1,358	1,165	875	993	1,650	1,080	1,337	1,480	1,360	1,420	2,220	1,120	1,367
18	1,350	840	1,129	1,530	1,180	1,324	1,315	1,015	1,134	1,450	1,250	1,301	1,530	1,230	1,388	1,800	1,100	1,428
19	1,370	1,030	1,185	1,680	930	1,167	1,465	1,165	1,530	1,400	1,230	1,278	1,500	1,180	1,303	2,100	1,200	1,425
20	1,500	950	1,161	1,240	920	1,012	1,415	915	1,126	1,590	1,350	1,406	1,480	1,280	1,357	1,750	1,280	1,413
21	1,330	970	1,130	2,080	880	1,070	1,185	785	956	1,890	1,340	1,515	1,580	1,320	1,441	1,700	1,050	1,289
22	1,270	810	952	1,680	980	1,250	1,315	1,035	1,128	1,540	1,440	1,456	2,470	1,350	1,550	1,500	1,000	1,201
23	1,200	770	858	1,730	1,180	1,386	1,480	1,400	1,432	1,440	1,110	1,274	1,470	1,070	1,307	1,400	960	1,153
24	1,120	510	894	1,330	1,100													

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D2 1030.30 BLANCO DRAIN AT PUMP LIFT
(October 1971 through September 1972)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	3,100	2,100	2,404	3,650	2,000	2,900										NR	NR	NR
2	2,800	1,900	2,444	3,750	1,750	2,818										NR	NR	NR
3	3,200	1,900	2,810	3,450	2,450	2,956										NR	NR	NR
4	3,500	2,700	3,266	3,050	2,050	2,358										NR	NR	NR
5	3,700	2,700	3,100	4,150	2,100	3,233										NR	NR	NR
6	3,800	1,800	2,937	3,750	2,750	3,030										NR	NR	NR
7	3,000	1,900	2,441	3,150	2,400	3,024										NR	NR	NR
8	2,900	2,200	2,496	3,500	2,450	3,004										2,500	1,750	2,050
9	4,100	1,850	2,641	4,000	3,500	3,744										4,600	2,000	2,883
10	4,100	2,300	3,029	4,150	3,900	4,011	N			N			N			3,700	1,600	2,542
11	3,500	2,400	2,981	NR	NR	NR	O			O			O			2,700	1,800	2,077
12	3,200	2,400	3,029	NR	NR	NR										4,200	1,900	3,388
13	4,300	3,200	3,595	NR	NR	NR										3,300	1,600	2,433
14	4,700	2,650	3,893	NR	NR	NR										3,000	1,500	2,106
15	3,150	2,500	2,770	NR	NR	NR	R			R			R			2,100	1,350	1,662
16	3,400	2,800	3,052	NR	NR	NR	E			E			E			2,800	1,600	1,992
17	3,650	2,850	3,327	NR	NR	NR										1,800	1,500	1,650
18	4,050	2,950	3,527	NR	NR	NR	C			C			C			2,900	1,600	2,315
19	3,950	2,250	3,052	NR	NR	NR										3,400	2,600	2,912
20	3,750	2,350	3,175	NR	NR	NR	O			O			O			3,400	1,700	2,356
21	3,350	2,400	2,870	NR	NR	NR	R			R			R			2,700	1,600	1,904
22	3,850	2,300	2,829	NR	NR	NR										3,200	1,800	2,494
23	3,600	2,300	2,966	NR	NR	NR	D			D			D			2,500	1,500	1,941
24	3,150	2,600	2,808	NR	NR	NR										2,900	1,600	2,300
25	3,650	2,650	3,179	NR	NR	NR										2,500	1,450	1,902
26	3,450	1,700	2,466	NR	NR	NR										2,300	1,450	1,842
27	3,450	2,150	2,602	NR	NR	NR										2,350	1,350	1,725
28	4,150	3,450	3,775	NR	NR	NR										2,100	1,300	1,675
29	4,050	2,350	3,150	NR	NR	NR										2,100	1,300	1,508
30	3,550	2,450	2,770	NR	NR	NR										2,300	1,400	1,690
31	3,750	1,750	2,331													3,300	1,550	2,173

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	3,400	2,300	2,706	1,950	1,700	1,806				NR	NR	NR	2,850	1,650	2,166	2,900	1,900	2,521
2	3,000	2,300	2,667	2,250	1,700	1,981				NR	NR	NR	2,200	1,500	1,765	3,100	2,600	2,800
3	2,900	1,900	2,573	NR	NR	NR				NR	NR	NR	2,100	1,700	1,886	2,650	1,400	1,848
4	2,700	1,600	2,190	NR	NR	NR				NR	NR	NR	2,600	1,660	2,142	2,550	1,700	2,256
5	2,900	1,450	2,048	NR	NR	NR				2,800	1,860	2,434	2,700	1,700	2,138	3,350	2,550	2,854
6	3,000	1,750	2,519	NR	NR	NR				2,760	1,960	2,415	3,100	2,200	2,563	3,700	1,200	1,948
7	2,500	1,900	2,075	NR	NR	NR				2,460	1,700	2,082	2,550	1,550	1,895	2,400	1,000	1,390
8	2,550	1,900	2,188	NR	NR	NR				2,360	1,460	1,860	3,150	1,900	2,447	2,400	900	1,469
9	2,450	1,750	2,090	NR	NR	NR				1,900	1,440	1,668	2,650	2,000	2,320	1,850	950	1,392
10	2,450	2,000	2,188	NR	NR	NR	N			2,860	1,700	2,156	2,600	1,500	2,090	2,500	900	1,706
11	2,700	1,900	2,315	NR	NR	NR	O			2,760	1,610	2,055	2,100	1,500	1,675	2,400	1,150	1,752
12	2,800	1,850	2,348	NR	NR	NR				2,000	1,510	1,685	1,700	1,350	1,492	2,000	800	1,296
13	2,700	1,750	2,160	NR	NR	NR				2,010	1,500	1,622	2,250	1,700	1,956	2,600	1,400	1,867
14	2,600	2,100	2,412	NR	NR	NR				1,910	1,560	1,680	2,350	1,550	1,927	1,950	1,350	1,604
15	2,400	1,750	2,045	NR	NR	NR	R			2,100	1,510	1,711	2,500	1,000	1,562	1,700	800	1,294
16	2,800	2,300	2,494	NR	NR	NR	E			2,520	1,640	1,984	2,175	1,160	1,781	1,650	550	1,060
17	2,900	2,400	2,650	NR	NR	NR				2,100	1,740	1,933	2,475	1,325	1,785	1,700	1,100	1,485
18	2,800	2,200	2,504	NR	NR	NR	C			2,310	1,760	2,025	2,525	1,525	1,985	2,000	1,200	1,602
19	2,570	1,870	2,249	NR	NR	NR				1,930	1,570	1,730	2,500	1,950	2,219	2,150	1,100	1,477
20	2,700	1,770	2,161	NR	NR	NR	O			1,900	1,660	1,775	2,700	2,050	2,321	2,900	700	1,804
21	2,400	1,670	2,014	NR	NR	NR	R			1,900	1,560	1,694	3,000	2,100	2,662	600	200	379
22	2,570	1,540	1,845	NR	NR	NR				1,910	1,660	1,766	3,400	2,000	2,483	2,400	800	1,635
23	2,470	1,800	2,115	NR	NR	NR	D			2,060	1,610	1,833	2,550	1,600	1,956	1,600	1,200	1,404
24	2,900.	1,970	2,476	NR	NR	NR				2,460	1,860	2,154	2,650	1,900	2,350	3,050	1,650	2,402
25	2,670	2,070	2,452	NR	NR	NR				2,700	2,100	2,429	3,100	2,050	2,546	3,200	1,900	2,512
26	2,480	2,050	2,217	NR	NR	NR				2,360	1,860	2,099	2,725	1,575	1,983	3,000	2,700	2,888
27	2,780	1,350	1,923	NR	NR	NR				2,620	1,720	2,276	2,900	1,875	2,517	3,000	2,300	2,592
28	2,150	1,350	1,633	NR	NR	NR				2,410	1,610	1,864	2,800	2,400	2,594	3,100	2,200	2,685
29	2,350	1,580	1,965	NR	NR	NR				2,510	1,740	2,139	3,200	2,800	2,977	2,250	1,500	2,019
30	2,050	1,480	1,645	NR	NR	NR				2,600	1,560	1,810	2,950	2,250	2,671	2,000	850	1,579
31										2,800	2,050	2,502	2,950	1,950	2,373			

NR - No record.

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

D2 1325.10 SALINAS RIVER NEAR GONZALES
(October 1971 through September 1972)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	360	360	360	500	390	445	540	350	445	920	840	880	1080	1060	1070	NF	NF	NF
2	370	360	365	490	380	435	570	350	460	880	840	860	1000	840	920	NF	NF	NF
3	370	360	365	480	380	430	550	490	520	900	860	880	860	780	820	NF	NF	NF
4	370	360	365	480	230	355	500	470	485	900	880	890	1000	780	890	NF	NF	NF
5	370	360	365	300	230	265	500	470	485	920	880	900	980	830	905	NF	NF	NF
6	370	360	365	300	230	265	500	500	500	860	740	800	900	820	860	NF	NF	NF
7	370	360	365	NR	NR	NR	500	470	485	800	770	785	820	680	750	NF	NF	NF
8	380	360	370	NR	NR	NR	480	470	475	800	780	790	700	680	690	NF	NF	NF
9	420	380	400	NR	NR	NR	480	440	460	810	780	795	710	700	705	NF	NF	NF
10	430	390	410	560	560	560	440	430	435	820	780	800	710	700	705	NF	NF	NF
11	440	380	410	545	440	492	610	580	595	820	800	810	700	700	700	NF	NF	NF
12	420	350	385	500	480	490	620	610	615	930	900	915	710	700	705	NF	NF	NF
13	440	360	400	480	420	450	620	570	595	940	910	925	720	700	710	NF	NF	NF
14	430	400	415	440	420	430	500	480	495	950	850	900	720	700	710	NF	NF	NF
15	400	400	400	460	420	440	490	470	480	830	820	825	720	700	710	NF	NF	NF
16	400	380	390	560	450	455	490	480	485	900	770	835	720	700	710	NF	NF	NF
17	420	400	410	500	480	490	480	470	475	870	840	855	720	700	710	NF	NF	NF
18	440	420	430	500	470	490	550	475	512	870	860	865	720	690	705	NF	NF	NF
19	450	420	435	470	470	470	550	490	520	870	860	865	720	700	710	NF	NF	NF
20	460	420	440	480	460	470	530	450	490	870	860	865	720	690	705	NF	NF	NF
21	470	400	435	480	470	475	490	360	425	870	860	865	710	680	695	NF	NF	NF
22	480	420	450	480	480	480	375	370	372	980	970	975	700	680	690	NF	NF	NF
23	470	430	450	480	460	465	370	250	310	980	960	970	700	680	690	510	500	505
24	480	390	435	470	460	465	390	270	330	980	960	970	700	680	690	510	490	500
25	480	290	390	470	460	465	340	230	285	980	960	970	680	680	680	550	510	530
26	290	260	275	480	470	475	370	240	305	970	950	960	NF	NF	NF	550	530	540
27	300	260	280	480	460	470	440	320	380	1080	1050	1065	NF	NF	NF	550	530	540
28	280	230	255	470	460	465	420	290	305	1060	1040	1050	NF	NF	NF	530	490	510
29	280	220	250	460	460	460	740	460	600	1080	1060	1070	NF	NF	NF	480	450	465
30	340	220	275	460	450	455	1000	920	960	1060	1040	1050				460	460	460
31	380	270	325				960	760	860	1080	1040	1060				470	450	460

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	480	460	470	580	460	520	470	420	445	480	440	460	500	430	465	480	440	460
2	470	450	460	570	460	515	470	420	445	500	450	475	500	460	480	460	420	440
3	500	470	485	500	390	445	480	420	450	500	450	475	530	490	510	460	420	440
4	510	500	505	540	380	460	460	420	440	490	430	460	560	530	545	470	440	455
5	550	510	530	520	360	440	450	410	430	480	420	450	570	540	555	460	420	440
6	560	540	550	520	490	505	450	420	435	480	420	450	570	540	555	430	420	425
7	580	550	565	520	480	500	435	410	420	550	410	480	520	500	510	430	430	430
8	580	530	555	565	480	520	430	410	420	540	480	510	560	510	535	430	430	430
9	540	500	520	510	480	495	470	405	440	540	480	510	550	400	475	430	430	430
10	500	460	480	490	470	480	500	400	450	680	460	460	570	420	400	410	430	430
11	480	460	470	490	470	480	460	405	430	700	480	590	410	390	400	450	420	435
12	475	465	470	510	470	490	450	400	425	510	400	455	410	400	405	450	400	425
13	485	475	480	500	450	475	460	410	435	525	360	442	410	400	405	460	430	445
14	490	475	480	530	480	505	450	350	400	450	390	420	425	410	417	460	420	440
15	510	490	500	650	540	595	410	300	355	460	350	405	440	400	420	420	420	420
16	515	505	510	680	600	640	450	290	370	485	410	447	440	400	420	440	420	430
17	515	505	510	760	580	670	450	320	385	480	420	450	430	370	400	440	430	435
18	515	505	510	730	470	600	450	400	425	470	450	460	430	410	420	450	430	440
19	515	495	505	530	480	505	470	420	445	500	370	435	430	370	400	450	450	450
20	515	485	500	540	500	520	490	435	462	440	310	375	410	370	390	450	450	450
21	505	485	495	670	560	615	510	455	480	460	330	395	430	380	405	450	450	450
22	545	475	510	745	645	695	480	420	450	475	415	445	430	430	450	450	450	450
23	545	485	515	795	715	755	470	430	450	480	440	460	430	430	450	450	450	450
24	525	495	510	815	755	785	510	450	480	460	440	450	430	430	450	450	450	450
25	545	495	520	810	450	630	480	430	455	470	440	455	450	420	435	480	450	465
26	575	515	545	445	435	440	470	420	445	460	440	450	460	430	445	490	460	475
27	595	505	550	455	445	450	470	340	405	480	430	455	460	430	445	490	430	460
28	705	495	600	455	440	447	350	310	330	490	440	465	490	450	470	470	440	455
29	530	460	495	465	435	450	430	380	405	460	440	450	500	430	465	460	440	450
30	510	440	475	485	445	465	460	410	435	440	400	420	430	430	430	470	450	460
31	575	515	545	445	435	440	470	420	445	460	390	405	450	430	440	470	450	460

TABLE D-9 (Cont.)

DAILY MAXIMUM, MINIMUM, AND AVERAGE SPECIFIC CONDUCTANCE

F9 1100.00 RUSSIAN RIVER NEAR GUERNIEVILLE
(October 1971 through September 1972)

(In Micromhos at 25° C)

Day	October			November			December			January			February			March		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	285	275	280	290	280	285	300	295	295	255	255	255	230	225	225	195	170	185
2	400	270	300	300	280	285	305	300	300	260	255	256	228	225	225	205	195	202
3	380	275	295	300	290	295	325	270	290	265	260	260	235	228	230	205	185	192
4	275	275	275	290	275	280	290	270	280	270	265	265	238	196	220	190	180	185
5	275	275	275	295	275	285	280	275	275	275	270	270	196	155	173	210	195	200
6	275	275	275	300	300	300	280	275	280	280	275	280	190	157	175	217	207	210
7	275	270	275	300	295	295	285	280	280	285	280	285	208	190	196	225	217	223
8	270	270	270	295	290	295	280	280	280	290	285	290	215	208	215	225	225	225
9	270	270	270	300	290	295	280	280	280	290	290	290	220	215	217	235	225	230
10	270	270	270	300	300	300	290	280	285	295	290	295	230	220	225	245	235	240
11	275	270	275	305	295	300	290	285	285	295	295	295	240	230	235	245	235	240
12	280	270	270	320	300	315	285	235	260	295	280	290	250	240	242	250	245	245
13	280	270	275	315	275	285	235	190	220	285	270	275	250	245	245	250	250	250
14	275	270	275	295	265	280	230	190	210	270	260	263	250	250	255	255	250	255
15	280	275	275	300	275	285	260	230	250	260	260	260	255	250	255	270	255	265
16	285	280	280	310	310	310	220	210	215	265	260	265	260	255	255	275	270	270
17	285	285	285	310	310	310	275	270	275	265	265	265	260	260	275	275	275	275
18	285	285	285	310	310	310	280	275	280	265	265	265	260	265	280	275	275	275
19	285	275	285	315	315	315	285	280	285	265	265	265	265	265	285	275	280	285
20	280	275	280	325	315	320	290	285	285	270	265	265	270	265	285	285	285	285
21	280	280	280	325	320	320	290	290	290	275	265	270	270	265	270	285	285	285
22	285	280	280	320	315	315	300	162	240	265	180	225	275	255	265	290	285	285
23	280	280	280	315	315	315	182	160	172	185	127	165	260	193	235	285	270	275
24	295	280	290	315	310	310	220	182	200	170	125	145	195	187	190	270	265	265
25	285	275	280	315	310	310	195	165	170	190	170	180	195	190	190	280	265	270
26	275	275	275	315	310	310	183	170	175	195	175	180	198	188	195	275	275	275
27	270	275	280	330	310	315	175	135	145	197	185	185	190	185	185	275	270	270
28	285	280	280	330	310	320	210	155	190	210	185	195	205	190	197	285	275	280
29	295	285	290	320	305	310	235	210	222	225	210	220	210	170	195	285	285	285
30	295	295	295	305	295	295	245	235	240	227	225	225	230	225	227	290	285	285
31	295	290	295	295	295	295	255	245	248	230	225	227	230	225	227	290	290	290

Day	April			May			June			July			August			September		
	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg	Max	Min	Avg
1	295	290	290	250	245	245	270	265	270	300	285	295	265	250	260	260	255	260
2	295	295	295	245	245	245	275	270	270	295	282	285	270	260	260	270	260	260
3	300	295	295	250	245	250	280	275	275	290	280	285	260	250	252	265	265	265
4	300	300	300	NR	NR	NR	285	280	285	285	275	280	258	250	255	275	260	265
5	300	295	295	NR	NR	NR	300	280	290	280	270	275	260	255	265	260	260	260
6	300	260	275	NR	NR	NR	300	290	295	275	270	270	260	260	265	265	260	260
7	285	265	270	NR	NR	NR	305	295	300	275	270	270	270	260	265	265	260	260
8	285	275	280	NR	NR	NR	305	290	300	275	265	270	270	260	265	265	260	265
9	290	285	290	NR	NR	NR	310	275	295	270	260	265	270	260	268	270	260	265
10	295	290	295	NR	NR	NR	305	280	285	275	270	275	265	255	260	275	265	270
11	300	270	295	NR	NR	NR	315	300	305	275	265	270	260	255	260	275	260	265
12	270	240	260	325	310	315	305	290	300	275	265	270	260	255	260	265	260	265
13	240	215	220	315	310	310	300	285	295	273	265	270	255	255	255	265	260	265
14	235	210	225	315	295	305	305	275	285	275	265	270	260	250	255	275	265	265
15	265	235	250	300	285	290	290	285	290	273	266	270	250	250	250	280	275	280
16	265	250	260	290	280	282	295	285	290	265	260	265	255	250	255	285	275	280
17	250	250	285	285	285	285	300	285	295	275	260	270	NR	NR	NR	325	275	290
18	255	250	285	280	280	290	320	295	305	263	255	260	255	245	250	280	275	280
19	260	255	255	285	285	285	320	305	310	275	260	265	255	250	250	275	265	270
20	265	260	260	285	285	285	305	295	297	265	260	265	255	255	255	270	265	270
21	270	265	270	295	285	290	300	290	295	265	265	265	260	255	260	275	265	270
22	270	265	265	295	295	295	290	285	290	275	275	275	255	255	255	270	270	270
23	265	265	265	NR	NR	NR	290	285	285	275	265	270	255	255	255	275	270	270
24	265	265	265	NR	NR	NR	285	280	285	280	275	270	255	250	250	280	270	270
25	265	265	265	305	270	280	290	275	285	275	267	275	255	255	255	285	265	275
26	265	265	265	280	267	270	285	280	285	275	275	275	260	255	260	275	275	275
27	270	265	275	275	265	270	285	275	285	275	270	275	265	260	260	330	265	300
28	265	260	265	275	265	270	290	285	285	275	270	275	265	260	260	295	275	280
29	260	255	260	270	265	270	295	280	290	270	265	265	255	250	255	275	260	270
30	255	250	250	273	265	270	300	280	290	270	263	265	260	255	260	335	265	275
31	255	250	250	275	270	275	275	270	280	265	260	265	260	255	260	260	265	275

TABLE D-10
PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Codes and Abbreviations

Total - Total phytoplankton per milliliter
B1-Gr - Blue-Green Algae
Green - Green Algae
Flag - Flagellates
C/P - Centric over Pennate
Samp - 5050 - Department of Water Resources
Lab - 5050 - Department of Water Resources
Laboratory

Most Abundant Phytoplankton

Green Algae

G 02 Ankistrodesmus
G 10 Lagerheimia
G 22 Selenastrum

Flagellates

F 03 Euglena
F 54 Dinoflagellates
(Dinophyceae)
F 56 Cryptomonas
F 99 Unidentified

Diatoms

Centric

D 02 Coscinodiscus
D 03 Cyclotella
D 04 Melosira (salt water)
D 06 Stephanodiscus
D 08 Skeletonema
D 09 Chaetoceros
D 15 Thalassiosira

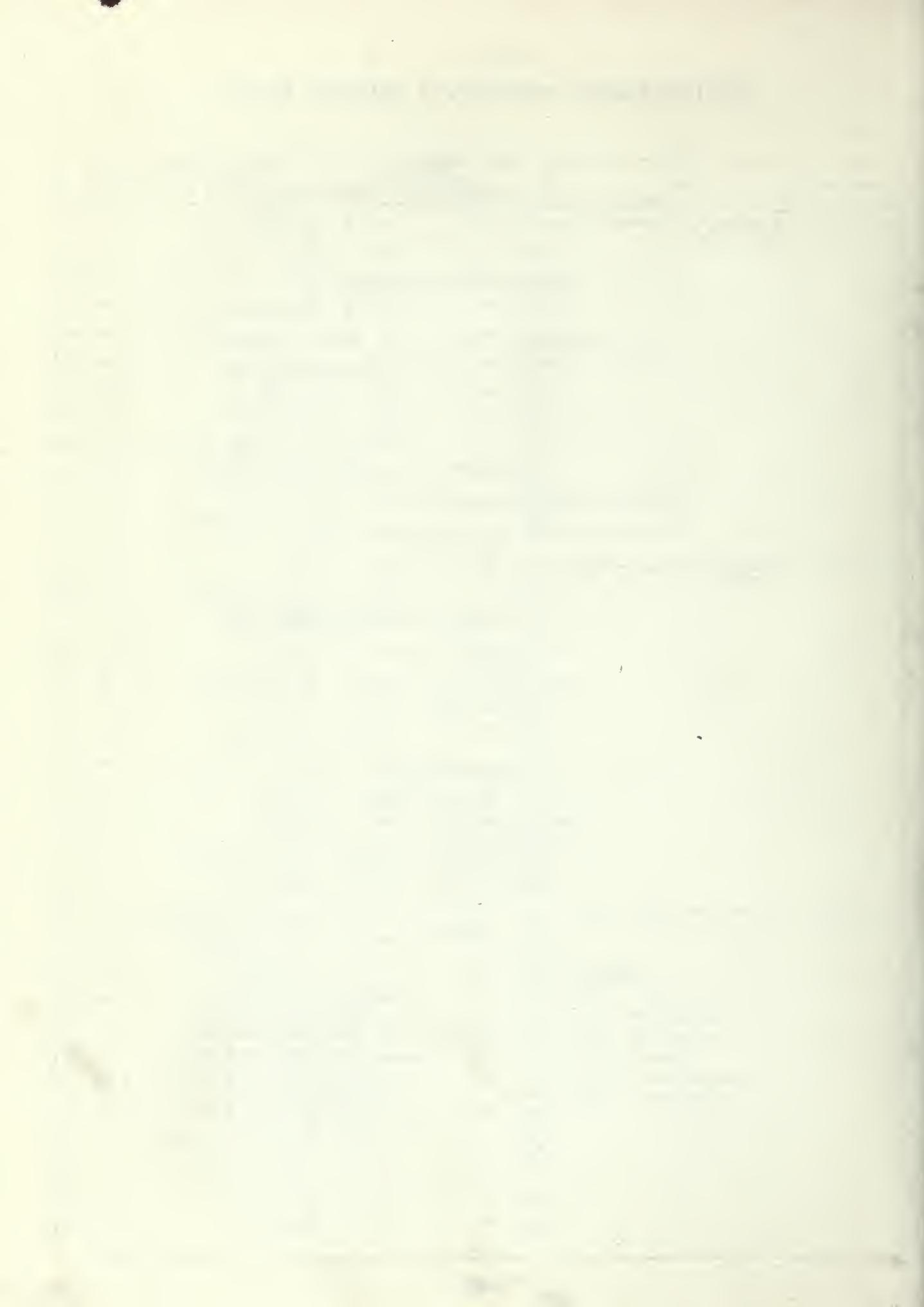
Pennate

D 51 Achnanthes
D 65 Navicula
D 66 Nitzschia
D 70 Synedra
D 79 Pleurosigma
D 81 Hantzchia

TABLE D-10

PHYTOPLANKTON ANALYSIS OF SURFACE WATER

Station Number	Station	Date Time	Phytoplankton (number per milliliter)					Most Abundant Phytoplankton (genus %)						Samp	Lab
			Total	B1-Gr	Green	Flag	Diatoms CP	1	2	3	4	5	6		
EO B 735.0 215.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (SHIP CHANNEL)	10-26-71 1345	962		930	32	F .99 0	D .08 96.7 3.3						5050	5050
		11-24-71 1230	420		420		F .99 100.0							5050	5050
		12-21-71 0945	350		350		F .99 100.0							5050	5050
		01-24-72 1430	868		740	64	F .99 85.2 64	D .03 7.4 7.4						5050	5050
		02-17-72 0850	1388		1100	192	F .99 96 79.3	D .09 11.5 6.9	D .66 2.3	D .06 2.3				5050	5050
		03-20-72 1230	1096		1032	0	F .99 64 91.2	D .79 5.8 2.9						5050	5050
		04-18-72 1130	1164		1100	0	F .99 64 94.5	D .66 5.5						5050	5050
		05-16-72 1045	1200		1200		F .99 100.0							5050	5050
		06-13-72 0915	1154		772	350	F .99 32 64.1	D .02 16.5	D .03 8.3	D .04 2.8	D .08 2.8	D .66 2.8		5050	5050
		07-11-72 0900	676		484	160	F .99 32 62.1	D .03 23.7	F .54 9.5	D .66 4.7				5050	5050
		08-09-72 0800	64		64		F .99 100.0							5050	5050
		09-11-72 1000	190		190		F .99 100.0							5050	5050
EO B 736.2 212.0	SAN FRANCISCO BAY AT SAN MATEO BRIDGE (PIER 662)	10-26-71 1430	3100		3100		F .99 100.0							5050	5050
		11-24-71 1345	796	64	540	192	F .99 0 67.8	D .03 20.1	G .22 8.0	D .06 4.0				5050	5050
		12-21-71 1030	508		380	128	F .99 0	D .03 74.8	D .08 18.9					5050	5050
		01-24-72 1515	1490		1200	290	F .99 0	D .03 80.5						5050	5050
		02-17-72 0950	2386		2000	224	F .99 162	D .66 83.8	D .09 6.8	D .03 6.7				5050	5050
		03-20-72 1330	1032		1000	0	F .99 32	D .65 96.9						5050	5050
		04-18-72 1215	6328		6200	64	F .99 98.0	D .02 1.0	D .66 1.0					5050	5050
		05-16-72 1145	4000		4000		F .99 100.0							5050	5050
		06-13-72 0945	802		802		F .99 96.0	F .03 4.0						5050	5050
		07-11-72 0930	1620		1620		F .99 86.4	F .54 13.6						5050	5050
		08-09-72 0845	448		192	224	F .99 32	D .03 42.9	D .04 35.7	D .70 14.3				5050	5050
		09-11-72 1100	1182		730	452	F .99 0	D .03 61.8	D .06 35.5					5050	5050
EO B 749.2 222.4	SAN FRANCISCO BAY AT TREASURE ISLAND	10-26-71 1115	928		640	192	F .99 96	D .03 69.0	D .08 6.9	D .66 6.9	D .02 6.9	D .04 3.4		5050	5050
		11-24-71 1045	860	32	700	128	F .99 0	D .03 81.4	D .02 11.2	G .02 3.7				5050	5050
		12-21-71 0830	572		540	32	F .99 0	D .02 94.4						5050	5050
		01-24-72 1245	606	32	320	190	F .99 64	D .15 52.8	D .66 31.3	G .10 10.6				5050	5050
		02-17-72 0750	1058		834	160	F .99 64	D .03 78.8	D .06 9.1	D .66 6.0				5050	5050
		03-20-72 1045	1192		1000	96	F .99 96	D .09 83.9	D .66 5.4	D .08 5.4	D .79 2.7			5050	5050
		04-18-72 1015	1148		540	480	F .99 128	D .03 47.0	D .06 27.9	D .66 8.4	D .08 8.4	D .70 5.6		5050	5050
		05-16-72 0950	1248		830	258	F .99 160	D .02 66.5	D .08 10.4	D .66 7.7	D .51 7.7	D .09 5.1		5050	5050
		06-13-72 0800	2258		930	1264	D .03 64	F .99 53.1	D .15 41.2	D .65 2.8	D .81 1.4			5050	5050
		07-11-72 0730	1022		862	160	F .99 0	D .03 81.2	D .02 9.4	F .54 6.3				5050	5050
		08-09-72 0645	192		160	32	F .99 0	F .56 66.7	D .02 16.7					5050	5050
		09-11-72 0915	576		512	64	F .99 0	D .03 83.3	F .03 1.11					5050	5050



APPENDIX E
GROUND WATER QUALITY DATA

This appendix presents ground water quality data collected during the period from October 1, 1971, through September 30, 1972. The data were collected from a number of major ground water sources in the Central Coastal Area in cooperation with other state, local, and federal agencies. During the 1972 water year, 209 wells were sampled in 25 ground water basins and subbasins or subareas.

At the time of field sampling, pH and temperature measurements are normally made. Comments on current conditions are noted in field books which are available in the files of the Department of Water Resources.

Laboratory analyses of ground waters were performed in accordance with "Standard Methods for the Examination of Water and Wastewater", 13th Edition.

The Region and Basin and State Well Numbering Systems are described in Appendix C, "Ground Water Measurements", on page 17. The locations of the ground water basins and subbasins are shown on Figure C-1, pages 19, 20, and 21.

INDEX TO GROUND WATER QUALITY DATA
IN THE CENTRAL COASTAL AREA

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2-01.00	Petaluma Valley	95
2-02.00	Napa-Sonoma Valley	
2-02.01	Napa Valley	96
2-02.02	Sonoma Valley	96
2-03.00	Suisun-Fairfield Valley	96
2-04.00	Pittsburg Plain	97
2-05.00	Clayton Valley	97
2-06.00	Ygnacio Valley	97
2-09.00	Santa Clara Valley	
2-09.01	East Bay Area	97
2-09.02	South Bay Area	98
2-10.00	Livermore Valley	99
CENTRAL COASTAL REGION 3-00.00		
3-02.00	Pajaro Valley	100
3-03.00	Gilroy-Hollister Valley	
3-03.01	South Santa Clara County	100
3-03.02	San Benito County	101
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3-04.03	Forebay Area	104
3-04.05	Upper Valley Area	104
3-04.08	Seaside Area	105

TABLE E-1
MINERAL ANALYSES OF GROUND WATER

Lab and Sampler Agency Codes

2400 - Santa Clara County Flood Control and Water District
 5000 - U. S. Geological Survey
 5050 - Department of Water Resources
 5100 - Alameda County Flood Control and Water Conservation District
 5114 - Santa Clara County
 5115 - Monterey County Flood Control and Water Conservation District
 5401 - Alameda County Water District

Abbreviations

TIME - Pacific Standard Time on a 24-hour clock
 TEMP - Water temperature in degrees Fahrenheit at the time of field sampling
 PH - Measure of acidity or alkalinity of water
 EC - Electrical conductance in micromhos at 25° C
 TDS - Gravimetric determination of total dissolved solids at 180° C
 SUM - Total dissolved solids by summation of analyzed constituents
 TH - Total hardness
 NCH - Noncarbonate hardness - any excess of total hardness over total alkalinity
 SAR - Sodium adsorption ratio

Mineral Constituents

B	- Boron	K	- Potassium
CA	- Calcium	MG	- Magnesium
CL	- Chloride	NA	- Sodium
C03	- Carbonate	N03	- Nitrate
F	- Fluoride	SI02	- Silica
HC03	- Bicarbonate	S04	- Sulfate

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TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP FIELD LABORATORY PH EC	MINERAL CONSTITUENTS IN										MILLIGRAMS PER LITER				MILLIGRAMS PER LITER			
			CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NOS ₃	B	F	TDS	TH	SIO ₂	SUM	NCH	SAR	
1 1-15																				
NORTH COASTAL REGION UKIAH VALLEY																				
08/08/72 0945	5050 5050	14N/12W-05K01 M 7.4 8.3 610 -- -- 1.61 0 271 -- 7.5 .21 -- -- --																226		
08/08/72 1100	5050 5050	15N/12W-21H01 M 63 F C 7.2 245 19 14 11 .6 0 139 10 7.1 .8 .50 -- 144 131 107 0 0.5 17 C 7.9 251 .95 1.15 .48 .02 0 2.28 .21 8 .20 .01 .50 -- 144 131 107 0 0.5																		
08/08/72 1330	5050 5050	16N/12W-05D01 M 7.3 8.2 380 398 -- -- 1.04 0 186 -- .33 .93 -- -- --																142		
08/08/72 1430	5050 5050	16N/12W-16N02 M 67 F 8.0 700 20 4.9 147 .4 0 308 5.8 92 .3 .20 -- 411 422 70 0 7.6 19 C 8.3 766 1.00 4.40 6.39 .01 0 5.05 .12 2.59 .33 0 20 -- 411 422 70 0 7.6																		
1-16																				
SANEL VALLEY																				
08/09/72 1200	5050 5050	13N/11W-07L01 M 64 F 7.0 190 -- -- 10 -- 0 101 -- 5.3 -- -- -- -- 81 18 C 8.0 193 .44 -- 0 .00 1.66 -- .15 -- -- -- --																		
08/09/72 1300	5050 5050	13N/11W-30H01 M 6.8 8.2 360 370 -- -- .48 0 178 -- .20 -- --																161		
1-17																				
ALEXANDER VALLEY																				
08/10/72 0945	5050 5050	10N/09W-18B01 M 63 F 6.7 325 20 16 17 .3 0 125 18 12 22.0 .00 -- 187 167 118 14 0.7 17 C 7.9 306 1.00 1.32 1.32 .01 0 2.05 .37 11 .34 .35 11 .00 -- 187 167 118 14 0.7																		
08/09/72 1715	5050 5050	10N/09W-33D01 M 65 F 7.3 300 18 20 11 .3 0 150 13 8.3 7.7 .00 -- 162 152 128 4 0.4 18 C 7.9 288 .90 1.64 1.64 .01 0 2.46 .27 9 .23 .12 4 .00 -- 162 152 128 4 0.4																		
08/09/72 1530	5050 5050	11N/10W-08P01 M 7.0 7.9 410 419 28 1.40 30 57 10 .01 0 177 40 .25 8.8 18.0 .40 -- 254 222 192 49 0.3																		
1-18																				
SANTA ROSA VALLEY																				
1-18.01 SANTA ROSA AREA																				
08/10/72 1700	5050 5050	06N/08W-03801 M 7.1 8.1 510 518 -- -- .96 0 142 -- 83 -- -- -- 196																		
08/10/72 1600	5050 5050	07N/07W-29001 M 7.3 8.0 495 487 29 1.45 20 1.64 43 1.87 2.7 0 278 1.6 19 .0 .40 -- 308 252 154 0 1.5																		
08/10/72 1315	5050 5050	07N/08W-03L01 M 7.3 8.2 525 517 26 1.30 19 1.56 54 4.7 0 268 15 26 .0 .10 -- 336 277 143 0 2.0																		
08/10/72 1445	5050 5050	07N/08W-05G01 M 67 F 7.0 660 -- -- 23 -- 0 167 -- 58 -- -- -- -- 214 19 C 8.2 646 -- -- 1.00 -- 0 2.74 -- 1.64 -- -- -- --																		
08/10/72 1515	5050 5050	07N/09W-36M01 M 7.4 8.0 390 390 28 1.40 10 1.65 38 .6 0 191 1.6 25 .4 .10 -- 251 198 112 0 1.6																		
08/10/72 1400	5050 5050	08N/08W-20Q01 M 65 F 7.2 465 -- -- 44 -- 0 207 -- 34 -- -- -- -- 133 18 C 8.2 456 -- -- 1.91 -- 0 3.39 -- .96 -- -- -- --																		
1-19																				
ANDERSON VALLEY																				
09/15/72 1050	5050 5050	13N/14W-02L01 M 64.0F 7.2 270 23 10 18 .6 0 140 2.0 10 4.8 .10 -- 160 137 100 0 0.8 17.8C 7.9 261 1.15 .82 .78 .02 0 2.29 .04 10 4.8 .10 -- 160 137 100 0 0.8																		
09/15/72 1020	5050 5050	13N/14W-11A01 M 63.0F 7.2 290 -- 107																		
09/15/72 1125	5050 5050	14N/14W-18R02 M 63.0F 6.2 170 -- 36 17.2C 6.9 158 --																		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP FIELD PH EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER			
			CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NOS	SiO ₂	8	F	TDS SUM	TH NCH	SAR	
1 1-19																		
NORTH COASTAL REGION ANDERSON VALLEY																		
09/15/72 1150	5050 5050	14N/14W-19801 M	64.5F 18.0C	6.5 7.6	250 216	.70 .74 31	9.0 .74 33	18 .78 35	1.1 .03 1	0 .00	101 1.66 78	1.5 .03 1	16 .45 21	.3 .00	.40 --	154 110	72 0	0.9
09/15/72 1100	5050 5050	14N/14W-34606 M	65.0F 18.3C	7.4	570	--	--	--	--	--	--	--	--	--	--	--	--	
1-20																		
POINT ARENA																		
09/15/72 0900	5050 5050	12N/16W-18K01 M	60.0F 15.5C	5.6 6.4	350 342	.59 .29 11	12 .99 36	31 1.35 4.9	4.3 .11 4	0 .00	10 .16 6	13 .27 10	48 1.35 49	62.0 1.00 36	.00 --	243 181	66 56	1.7
09/15/72 0845	5050	12N/17W-12L01 M	56.0F 13.3C	6.2	127	--	--	--	--	--	--	--	--	--	--	--	--	
09/15/72 0825	5050 5050	13N/16W-31M01 M	62.0F 16.7C	6.3	465	--	--	--	--	--	--	--	--	--	--	--	--	
09/15/72 0800	5050	13N/17W-24D01 M	57.0F 13.9C	6.4	255	--	--	--	--	--	--	--	--	--	--	--	--	
1-21																		
FORT BRAGG TERRACE																		
09/14/72 1415	5050	17N/17W-30F01 M	58.0F 14.4C	5.9	615	--	--	--	--	--	--	--	--	--	--	--	--	
09/14/72 1500	5050	17N/17W-30M01 M	59.5F 15.3C	6.8	370	--	--	--	--	--	--	--	--	--	--	--	--	
09/14/72 1330	5050	18N/17W-07K01 M	61.0F 16.1C	6.2	195	--	--	--	--	--	--	--	--	--	--	--	--	
09/14/72 1130	5050 5050	19N/17W-20N01 M	61.0F 16.1C	6.3	255	--	--	--	--	0 .00	.47 .77	--	42 1.18	--	--	--	57	
09/14/72 1155	5050	19N/17W-30G01 M	60.0F 15.5C	5.9	345	--	--	--	--	--	--	--	--	--	--	--	--	
09/14/72 1250	5050 5050	19N/17W-30Q01 M	57.0F 13.9C	7.2	385	--	--	--	--	--	--	--	--	--	--	--	--	
2 2-01																		
SAN FRANCISCO BAY REGION PETALUMA VALLEY																		
08/11/72 1500	5050 5050	03N/07W-14F01 M	65F 8.3	7.3 625	--	--	59 2.57	--	0	227 3.72	--	64 1.80	--	--	--	177		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER				MILLIGRAMS PER LITER							
				PH	EC	CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	8	F	TDS SUM	TH NCH	SAR				
2 2-01 SAN FRANCISCO BAY REGION PETALUMA VALLEY																							
08/11/72 1315	5050 5050	04N/06W-21A01	M	67 19	F C	7.3 7.6	990 962	45 2.25	45 3.70	65 26	1.0 .03	0 .00	160 2.62	5.1 .11	191 1	50.0 .81	.00	--	699 481	296 167	1.6		
08/11/72 1015	5050 5050	05N/07W-19N01	M			7.7 8.1	505 502	50 2.50	14 1.15	27 1.17	2.0 .05	0 .00	180 2.95	5.1 .11	69 2	.0 .00	.00	--	301 256	181 181	0.9		
08/11/72 1115	5050 5050	05N/07W-26E01	M	63 17	F C	7.5 8.2	800 781	55 2.74	34 2.80	59 2.57	1.8 .05	0 .00	316 5.18	21 .44	82 2.31	4.6 .07	.10	--	458 413	278 18	1.5		
2-02 NAPA-SONOMA VALLEY																							
08/16/72 0730	5050 5050	2-02.01 04N/04W-04C02	M	63 17	F C	6.8 7.6	4000 3310	149 7.44	118 32	303 43	2.1 .05	0 .00	152 2.49	46 .96	986 27.81	.0 .00	.00	--	2540 1679	859 733	4.5		
08/16/72 1545	5050 5050	04N/04W-12H02	M			7.0 7.9	680 666	54 2.69	13 1.07	58 2.52	.0 .00	0 .00	185 3.03	40 .83	71 2.00	32.0 .52	.00	--	420 359	187 37	1.8		
08/16/72 0930	5050 5050	06N/04W-27L02	M			7.7 8.0	295 285	11 .55	6.2 .51	42 1.83	.5 .01	0 .00	133 2.18	9.2 .19	13 .37	18.0 .29	.00	--	189 165	53 0	2.5		
08/17/72 1030	5050 5050	07N/05W-27A01	M			7.3 8.2	560 548	30 1.50	21 1.73	49 2.13	5.0 .13	0 .00	254 4.16	6.7 .14	47 1.33	1.1 .02	2.20	--	386 287	161 0	1.7		
08/16/72 1230	5050 5050	08N/06W-10003	M			7.3 8.2	315 302	16 .80	11 .90	30 1.31	7.4 .19	0 .00	181 2.97	3.1 .06	6.4 .18	.8 .01	.10	--	237 164	86 0	1.4		
08/16/72 1445	5050 5050	09N/07W-36H04	M	82 28	F C	7.2 8.2	390 376	16 .80	12 .99	46 2.00	3.0 .08	0 .00	167 2.74	12 .25	27 7.76	.4 .01	1.20	--	246 200	90 0	2.1		
2-02.02 04N/05W-06E01																							
08/17/72 1800	5050 5050	SONOMA VALLEY	M			7.6 8.1	425 418	27 1.35	19 1.56	25 1.09	4.3 .11	0 .00	185 3.03	5.8 .12	36 1.02	1.2 .02	.30	--	286 210	145 0	0.9		
08/17/72 1500	5050 5050	05N/05W-28N01	M			6.5 7.7	1050 994	32 1.60	48 3.95	71 3.09	2.8 .07	0 .00	82 1.34	12 .25	242 6.82	19.0 .31	.00	--	583 467	277 211	1.9		
08/17/72 1600	5050 5050	05N/06W-02N02	M			7.1 8.0	290 288	16 .80	30 .80	30 1.31	.5 .01	0 .00	135 2.21	8.2 .17	17 .48	7.6 .12	.00	--	208 155	80 0	1.5		
08/17/72 1730	5050 5050	05N/06W-12M01	M			7.6 8.1	495 478	16 .80	21 1.73	54 2.35	2.9 .07	0 .00	240 3.93	3.4 .07	33 .93	1.9 .03	.40	--	295 251	125 0	2.1		
2-03 SUISUN-FAIRFIELD VALLEY																							
08/01/72 1545	5050 5050	03N/01E-22F02	M			8.2 8.6	1900 1750	-- --	312 13.57	-- 1.13	446 7.31	-- 7.11	252 --	-- --	-- --	-- --	--	--	186				
08/02/72 1345	5050 5050	04N/02W-05002	M			7.3 8.4	975 965	-- --	78 3.39	-- .37	304 4.98	-- 2.48	88 --	-- --	-- --	-- --	--	--	343				
08/02/72 1430	5050 5050	04N/03W-13G02	M			7.3 8.4	1075 1000	-- --	88 3.83	-- .27	313 5.13	-- 2.23	79 --	-- --	-- --	-- --	--	--	319				
08/02/72 1300	5050 5050	05N/01W-19K01	M			7.5 8.2	1125 1030	69 3.44	33 2.71	107 4.65	.1 .00	0 .00	423 6.93	17 .35	116 3.27	19.0 .31	1.40	--	552 570	309 0	2.7		
08/01/72 1415	5050 5050	05N/01W-30H01	M			66 19	F C	7.3 8.0	1190 1150	90 4.49	28 2.30	112 4.87	.3 .01	0 .00	345 5.65	25 .52	164 4.62	39.0 .63	1.30	--	690 629	341 57	2.6
08/01/72 1445	5050 5050	05N/01W-30J02	M			66 19	F C	7.3 7.8	2000 1890	136 6.79	38 3.13	200 8.70	.9 .02	0 .00	393 6.44	43 .90	387 10.91	12.0 .19	3.80	--	1160 1014	495 174	3.9

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃								MILLIGRAMS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER TDS SUM TH SAR					
				7.3	700	50	19	65	.0	0	253	69	31	24.0	1.50	--	372	203			
		2 2-03	SAN FRANCISCO BAY REGION SUISUN-FAIRFIELD VALLEY																		
08/02/72 1645	5050 5050		05N/02W-08H07 M	7.3 8.1	700 669	50 2.50	19 36	65 23	.0 .00	0 0.00	253 4.15 61	69 1.44 21	31 .87 13	24.0 .39 6	1.50	--	372 384	203 0	2.0		
		2-04	PITTSBURG PLAIN																		
08/04/72 1540	5050 5050		02N/01E-18D01 M	69 21	F C	7.9 8.4	800 791	--	--	62 2.70	-- .37	11 4.56	278 4.56	-- 2.26	80 --	--	--	--	252		
08/04/72 1600	5050 5050		02N/01W-12P02 M	68 20	F C	7.7 8.2	3500 2880	--	--	295 12.83	-- .00	0 4.85	296 4.85	-- 17.20	610 --	--	--	--	826		
		2-05	CLAYTON VALLEY																		
08/04/72 1500	5050 5050		01N/01W-04A01 M	7.3 8.5	625 619	--	--	27 1.17	--	13 .43	250 4.10	--	28 .79	--	--	--	--	256			
08/04/72 1430	5050 5050		02N/01W-30K01 M	7.5 8.5	1300 1220	--	--	84 3.65	--	23 .77	411 6.74	--	68 1.92	--	--	--	--	504			
08/04/72 1400	5050 5050		02N/02W-13P01 M	7.5 8.3	1010 985	--	--	110 4.79	--	0 .00	251 4.11	--	143 4.03	--	--	--	--	240			
		2-06	YGNACIO VALLEY																		
08/04/72 1215	5050 5050		01N/01W-29G01 M	65 18	F C	7.4 8.1	2300 2090	--	--	234 10.18	-- .00	0 5.72	349 5.72	-- 8.23	292 --	--	--	--	614		
08/04/72 1250	5050 5050		01N/02W-13P01 M	7.3 8.3	1350 1220	--	--	97 4.22	--	0 .00	414 6.79	--	85 2.40	--	--	--	--	458			
		2-09	SANTA CLARA VALLEY																		
		2-09.01 025/03W-19Q01	EAST BAY AREA																		
08/09/72 1200	5100 5050			7.8	1400	3.54	71 28	40 26	135 46	2.6 1	0 .00	114 1.87 15	44 .92 7	350 9.87 78	0 .00	.50	--	857 699	342 248	3.2	
08/07/72 1330	5100 5050		025/03W-21J01 M	65 18	F C		7380	--	--	--	--	--	--	2280 64.30	--	--	--	--			
08/07/72 1310	5100 5050		025/03W-30D02 M	65 18	F C		837	--	--	--	--	--	--	94 2.65	--	--	--	--			
08/07/72 1230	5100 5050		025/03W-33H03 M	64 18	F C	8.2	650	34 1.70 24	24 3.97 28	78 48	2.8 .07 I	0 .00	330 5.41 77	38 .79 11	29 .02 12	.6 .01	.60	--	381 369	185 0	2.5
08/07/72 1340	5100 5050		025/03W-34A02 M	72 22	F C		778	--	--	--	--	--	--	37 1.04	--	--	--	--			
08/07/72 1000	5100 5050		025/04W-03E01 M	67 19	F C	8.3	765	29 1.45 18	18 1.48 19	114 4.96 63	1.3 .03 0	0 .00	280 4.59 58	46 .96 12	84 2.37 30	.0 .00	.40	--	397 430	146 0	4.1
08/07/72 1445	5100 5050		035/02W-19R04 M	63 17	F C	8.0	1110	104 5.19 46	36 2.96 26	70 3.05 27	.6 .02 0	0 .00	377 6.18 54	78 1.62 14	104 2.93 26	45.0 .73 6	.30	--	670 623	409 99	1.5
08/07/72 1530	5100 5050		035/02W-30R14 M	63 17	F C	7.9	1150	91 4.54 38	42 3.45 29	88 3.83 32	.2 .01 0	0 .00	408 6.69 55	74 1.54 13	112 3.16 26	42.0 .68 6	.50	--	657 650	401 65	1.9
08/07/72 1400	5100 5050		035/03W-01G03 M	74 23	F C	8.2	956	28 1.40 15	22 1.01 19	145 6.31 66	1.1 .03 0	0 .00	318 5.21 54	56 1.17 12	117 3.30 34	.0 .00	.90	--	526 526	160 0	5.0
08/07/72 1430	5100 5050		035/03W-13B02 M	70 21	F C	8.0	1460	60 2.99 19	57 4.69 30	185 8.05 51	.4 .01 0	0 .00	576 9.44 59	151 3.14 20	100 2.82 18	32.0 .52 3	1.40	--	861 870	383 0	4.1

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER				MILLIGRAMS PER LITER					
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	PERCENT REACTANCE	VALUE	B	F	TDS	TH	SAR			
2 2-09 SAN FRANCISCO BAY REGION SANTA CLARA VALLEY																					
2-09-01 03S/03W-24002 H																					
08/07/72 1500	5100 5050	72 22	F C	2500	--	--	--	--	--	--	--	--	446 12.58	--	--	--	--	--			
09/18/72 1045	5401 5050	66 19	F C	7.4 7.9	570 622	--	--	52 2.26	--	0 .00	144 2.36	--	91 2.57	--	--	--	--	170			
09/18/72 1030	5401 5050	64 18	F C	7.7 8.1	490 526	44 2.20	18 1.48	35 1.52	1.5 .04	0 .00	207 3.39	44 1.7	36 1.02	3.8 .06	.70 1	--	372 285	183 15	1.1		
09/20/72 1315	5401 5050	66 19	F C	7.7 7.7	1200 1460	--	--	158 6.87	--	0 .00	550 9.01	--	116 3.27	--	--	--	--	414			
09/18/72 1120	5401 5050	64 18	F C	7.8 7.9	700 748	66 3.29	24 1.97	47 2.04	3.4 .09	0 .00	255 4.18	57 1.19	76 2.14	4.0 .06	.50 1	--	367 403	263 54	1.3		
09/19/72 1045	5401 5050	65 18	F C	7.9 8.1	2500 3410	--	--	--	--	--	--	--	982 27.69	--	--	--	--	--			
09/18/72 1140	5401 5050	70 21	F C	7.9 8.2	700 765	38 1.90	20 23	106 4.61	1.4 .04	0 .00	381 6.24	22 46	51 1.44	.0 .00	.50 18	--	434 426	177 0	3.5		
09/18/72 1300	5401 5050	65 18	F C	8.4 8.1	550 617	37 1.85	10 31	77 14	1.4 .04	0 .00	304 4.98	13 27	22 5	.5 .01	.50 11	--	357 311	134 0	2.9		
09/18/72 1330	5401 5050	71 22	F C	7.9 682	620 682	--	--	--	--	--	--	--	51 1.44	--	--	--	--	--			
09/18/72 1350	5401 5050	72 22	F C	7.7 708	630 708	--	--	--	--	--	--	--	66 1.86	--	--	--	--	--			
09/18/72 1430	5401 5050	66 19	F C	7.8 713	620 713	--	--	--	--	--	--	--	46 1.30	--	--	--	--	--			
09/18/72 1515	5401 5050	68 20	F C	8.0 8.1	600 676	--	--	87 3.78	--	0 .00	248 4.06	--	65 1.83	--	--	--	--	138			
09/18/72 1410	5401 5050	64 18	F C	7.8 772	700 772	--	--	--	--	--	--	--	73 2.06	--	--	--	--	--			
09/18/72 1445	5401 5050	65 18	F C	7.7 7.9	840 994	93 4.64	42 3.45	41 1.78	2.1 .05	0 .00	234 3.84	64 1.33	166 4.68	5.6 .09	.50 1	--	562 529	404 213	0.9		
09/18/72 1450	5401 5050	63 17	F C	7.6 4070	3100 4070	--	--	--	--	--	--	--	1190 33.56	--	--	--	--	--			
09/19/72 1330	5401 5050	71 22	F C	7.6 2460	2000 2460	--	--	--	--	--	--	--	606 17.09	--	--	--	--	--			
09/19/72 1310	5401 5050	71 22	F C	7.7 7.7	2000 2760	235 11.73	111 9.13	129 5.61	7.0 .18	0 .00	335 5.49	56 1.17	701 19.77	3.1 .05	.50 1	--	1960 1407	1040 769	1.7		
2-09-02 06S/01E-27C02 H																					
08/07/72	2400 5050	7.9 8.1		687 721	--	--	73 3.18	--	0 .00	281 4.61	--	56 1.58	--	--	--	--	--	203			
08/07/72	2400 5050	7.7 7.8		1372 1400	--	--	134 5.83	--	0 .00	582 9.54	--	114 3.21	--	--	--	--	--	469			
08/07/72	2400 5050	7.7 7.9		939 982	--	--	96 4.09	--	0 .00	499 8.18	--	44 1.24	--	--	--	--	--	342			

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN						MILLIGRAMS PER LITER				MILLIEQUIVALENTS PER LITER				MILLIGRAMS PER LITER			
				CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	8	SiO ₂	F	TDS	TH	NH ₃	SAR		
2 2-09																					
SAN FRANCISCO BAY REGION SANTA CLARA VALLEY																					
2-09.02																					
SOUTH BAY AREA																					
08/08/72	2400 5050	M		65 18	F C	7.3 7.8	784 796	41 2.05	65 5.35	30 1.31	.3 .01	0 .00	350 5.74	82 1.71	28 20	32.0 .79	.40 .52	-- 6	536 451	370 83	0.7
08/09/72	2400 5050	M		63 17	F C	7.6 8.1	747 753	-- --	-- 1.35	31 0.00	0 0.00	357 5.85	-- --	22 .62	-- --	-- --	-- --		338		
08/07/72	2400 5050	M		7.2 7.9	525 550	-- --	-- 1.00	23 0.00	-- --	0 0.00	232 3.80	-- --	16 .45	-- --	-- --	-- --		226			
08/07/72	2400 5050	M		8.3 7.9	600 624	68 3.39	20 1.64	41 2.4	1.1 0.03	0 0.00	310 5.08	44 76	23 14	.1 .00	.10 10	-- --	373 350	252 0	1.1		
08/07/72	2400 5050	M		8.0 7.8	674 696	68 3.39	21 1.73	51 2.22	1.0 0.03	0 0.00	288 4.72	64 66	40 1.33	.1 .00	.10 16	-- --	412 387	257 20	1.4		
09/25/72	2400 5050	M		70 21	F C	7.6 5.57	505 557	-- --	-- --	-- --	-- --	-- --	26 .73	-- --	-- --	-- --					
08/07/72	2400 5050	M		75 24	F C	7.9 7.9	566 596	-- --	-- 3.18	73 0.00	0 4.36	266 4.36	-- --	37 1.04	-- --	-- --		139			
08/07/72	2400 5050	M		7.7 7.8	889 898	91 4.54	35 2.88	45 1.96	1.0 .03	0 0.00	314 5.15	120 2.50	38 27	40.0 1.07	.10 .65	-- 7	647 524	371 114	1.0		
08/07/72	2400 5050	M		7.6 7.6	663 693	80 3.99	25 2.06	23 1.00	1.0 .03	0 0.00	286 4.69	17 66	43 1.35	50.0 1.21	.00 .81	-- 11	447 380	304 68	0.6		
09/25/72	2400 5050	M		7.8 7.9	728 813	-- --	-- 1.87	43 0.00	-- 5.59	0 0.00	341 5.59	-- --	60 1.69	-- --	-- --		323				
08/08/72	2400 5050	M		66 19	F C	6.9 7.6	638 667	-- --	26 1.13	-- --	0 0.00	228 3.74	-- --	15 .42	-- --	-- --		272			
2-10																					
LIVERMORE VALLEY																					
08/08/72	5100 1300	M		63 17	F C	8.2 8.2	1350 1350	51 2.54	60 4.93	150 6.53	1.2 .03	0 0.00	426 6.98	69 1.44	188 5.30	24.0 .39	2.40 3	-- --	738 755	373 25	3.4
08/08/72	5100 1230	M		86 30	F C	8.1 8.1	951	-- --	123 5.35	-- --	0 0.00	363 5.95	-- --	96 2.71	-- --	-- --		219			
08/08/72	5100 1220	M		61 16	F C	7.7 7.7	1460	-- --	119 5.18	-- --	0 0.00	479 7.85	-- --	186 5.25	-- --	-- --		482			
08/08/72	5100 1050	M		76 24	F C	8.0 8.0	1370	-- --	97 4.22	-- --	0 0.00	438 7.18	-- --	180 5.08	-- --	-- --		491			
08/08/72	5100 1315	M		71 22	F C	8.2 8.2	1040	50 2.50	57 4.69	88 3.83	1.6 .04	0 0.00	379 6.21	55 1.15	112 3.16	23.0 .37	1.80 3	-- --	545 575	360 49	2.0
08/08/72	5100 1205	M		62 17	F C	8.1 8.1	728	52 2.59	34 2.80	48 2.09	1.5 .04	0 0.00	283 4.64	46 1.52	54 1.20	23.0 .37	.40 5	-- --	358 398	270 38	1.3
08/08/72	5100 0930	M		68 20	F C	8.1 8.1	892	44 2.20	41 3.37	85 3.70	1.5 .04	0 0.00	286 4.69	57 1.19	95 2.68	36.0 .58	1.50 6	-- --	477 502	278 44	2.2
08/08/72	5100 0915	M		66 19	F C	7.9 7.9	691	35 1.75	36 2.96	48 2.09	1.3 .03	0 0.00	237 3.88	27 5.56	67 1.89	37.0 .60	.90 9	-- --	374 369	235 42	1.4
08/08/72	5100 0955	M		72 22	F C	8.2 8.2	562	42 2.10	24 1.97	36 1.57	1.6 .04	0 0.00	203 3.33	48 58	51 1.44	.00 25	.40 25	-- --	279 303	204 37	1.1

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃								MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE					MILLIGRAMS PER LITER					
				35	32	32	--	0	123	--	33	15.0	--	B	F	TDS	TH	SAR				
				3-02 CENTRAL COAST PAJARO VALLEY																		
				12S/01E-11Q01 M																		
08/01/72	5115 5050			7.7	622	1.75 30	2.63 46	1.39 24	--	.00	2.02 63	--	.93 29	.24 8	--	--	221 118	0.9				
04/19/72 1540	5050 5050	69.0F 20.5C	7.6 7.9	450 513	36 1.80	30 2.47	28 1.22	--	0	238	--	30 .85 18	.4 .01	.00	--	214 19	0.8					
07/26/72	5115 5050	63.0F 17.2C	7.2 6.2	6250 18.21	365 13.57	165 46.11	1060 .16	6.4 .16	0	.19	3030 .31	422 63.08	130 11.90	9.50	--	5600 5197	1590 1575	11.6				
04/19/72 1410	5050 5050	66.0F 18.9C	7.5 7.9	1230 1400	98 4.89	101 8.31	75 3.26	--	0	556	--	76 2.14 19	10.0 .16 1	.40	--	659 205	1.3					
07/26/72	5115 5050			8.0	483	1.90 41	1.56 34	1.09 24	2.1	0	215 .00	32 3.52 15	13 .67 8	.0	.10	--	268 235	174 0	0.8			
03/21/72 1725	5050 5050	62 17	F C	7.2 7.4	2400 2450	161 8.03	115 9.46	148 27	--	0	218 .00	600 3.57 82	15.0 .24 1	.20	--	877 697	2.2					
03/21/72 1350	5050 5050	59 15	F C	7.2 7.6	1000 1010	133 6.64	33 60	41 2.71	--	0	393 .00	48 1.35 76	42.0 .68 8	.20	--	470 146	0.8					
03/28/72	5050 5050			8.1	1290	99 4.94	68 5.59	89 3.87	--	0	365 .00	98 5.98 68	.6 2.76 32	.50	--	528 228	1.7					
04/20/72 1010	5050 5050	64.0F 17.8C	7.2 7.8	3800 4580	282 14.07	197 16.20	372 16.18	--	0	253 .00	1230 4.15 11	22.0 .35 1	.20	--	1520 1307	4.2						
05/02/72 1440	5050 5050	64.0F 17.8C	7.8 7.8	650 660	42 2.10	29 3.38	54 2.35	--	0	256 .00	70 4.20 68	.8 1.97 32	.10	--	225 14	1.6						
05/02/72 1400	5050 5050	62.0F 16.7C	7.1 8.0	1320 1340	93 4.64	68 5.59	97 4.22	--	0	328 .00	126 5.38 54	59.0 .95 36	.30	--	513 243	1.9						
03/22/72 1335	5050 5050			61 16	F C	7.4 7.6	1575 1610	90 4.49	58 4.77	149 6.48	--	0	195 .00	290 3.20 25	80.0 1.29 65	.20	--	464 303	3.0			
03/22/72 1345	5050 5050	61 16	F C	7.4 7.6	1575 2620	166 8.28	111 9.13	182 7.92	--	0	196 .00	675 3.21 14	65.0 1.05 5	.20	--	870 711	2.7					
03/22/72 1320	5050 5050	65 18	F C	8.2 8.3	1000 1020	15 .75	5.2 .43	188 8.18	--	0	197 .00	164 3.23 41	.0 4.62 59	.20	--	59 0	10.7					
04/25/72 1200	5050 5050	66.0F 18.9C	7.4 7.6	800 798	54 2.69	37 3.04	54 2.35	--	0	224 .00	83 3.67 58	23.0 .37 6	.20	--	286 103	1.4						
04/20/72 1400	5050 5050	66.0F 18.9C	7.2 7.6	1100 1210	59 2.94	39 3.21	119 5.18	--	0	255 .00	237 4.18 38	15.0 .24 2	.10	--	309 99	3.0						
04/20/72 1430	5050 5050	65.0F 18.3C	7.4 7.8	390 466	15 .75	7.8 .64	69 3.00	--	0	126 .00	62 2.07 53	3.0 .05 1	.10	--	70 0	3.6						
		3-03 GILROY - HOLLISTER VALLEY																				
		3-03.01 SOUTH SANTA CLARA COUNTY																				
08/15/72	5114 5050	69.0F 20.5C	7.8 7.7	574 606	53 2.64	43 3.54	16 .70	--	0	296 .00	23 4.85 83	23.0 .37 6	--	--	311 67	0.4						
08/10/72	5114 5050	65.0F 18.3C	7.6 7.7	415 453	37 1.85	27 2.22	12 .52	--	0	217 .00	18 3.56 85	8.2 .13 3	--	--	204 26	0.4						
08/15/72	5114 5050	65.0F 18.3C	7.2 7.7	624 658	43 2.15	38 3.13	24 1.04	--	0	206 .00	46 3.38 58	68.0 1.10 19	--	--	262 95	0.6						

TABLE E-1 (CONTINUED)
 MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP	FIELD LABORATORY	MINERAL CONSTITUENTS IN								MILLIGRAMS PER LITER				MILLIGRAMS PER LITER				
				CA	MG	NA	K	CO ₃	HCO ₃	S0 ₄	CL	N0 ₃	B	F	TDS	TH	NCH	SAR		
3 3-03	CENTRAL COAST GILROY - HOLLISTER VALLEY																			
3-03.01	SOUTH SANTA CLARA COUNTY																			
09/26/72	5114 5050	105/04E-31G04	M	7.7	450	1.65	2.06	.91	21	--	0	192	--	18	15.0	--	--	184 28	0.7	
				7.7	450	36	45	.91	20		.00	3.15 81		.51	.24 6					
08/09/72	5114 5050	105/04E-34L05	M	7.0 7.7	825 871	58 2.89	47 3.87	47 2.04	47 23	--	0	311 5.10 63	--	73 2.06	62.0 1.00 25 12	--	--	340 83	1.1	
08/09/72	5114 5050	115/04E-04003	M	7.4 8.0	836 887	68 3.39	57 4.69	26 1.13	26 12	--	0	341 5.59 72	--	29 .82	85.0 1.37 11 18	--	--	405 125	0.6	
08/08/72	5114 5050	115/04E-08K02	M	7.4 8.2	713 745	67 3.34	48 3.95	24 1.04	24 12	--	0	279 .00 4.57 73	--	27 .76	58.0 .94 12 15	--	--	365 136	0.5	
08/28/72	5114 5050	115/04E-09R03	M	66.0F 18.9C	7.9	979	58 2.89	65 5.35	40 1.74	--	0	409 .00 6.70 72	--	88 2.48	5.9 .10 1 1	--	--	411 77	0.9	
08/09/72	5114 5050	115/04E-16G02	M	66.0F 18.9C	7.3 8.0	775 770	65 3.24	46 3.78	32 1.39	--	0	322 .00 5.28 76	--	36 1.02	39.0 .63 15 9	--	--	351 87	0.7	
08/08/72	5114 5050	115/04E-16J01	M	66.0F 18.9C	7.3 8.0	1092 1140	96 4.79	60 4.93	57 2.48	--	0	517 .00 8.47 81	--	70 1.97	4.6 .07 1	--	--	488 63	1.1	
08/22/72	5050 1400	3-03.02 125/05E-01F06	M	75.0F 23.9C	7.4 7.7	1620 1750	88 4.39	5.76 24	182 7.92	--	0	497 .00 8.15 44	87 1.81 10 46	301	--	3.40	--	975 976	507 100	3.5
08/24/72	5050 0940	125/05E-01N02	M	70.0F 21.1C	7.2 8.0	1120 1120	50 2.50	42 3.45	138 6.00	--	0	425 .00 6.97 60	57 1.19 10 30	122	--	2.90	--	575 621	297 0	3.5
08/28/72	5050 1050	125/05E-03B01	M	72.0F 22.2C	7.8 8.0	910 1050	44 2.20	56 4.61	115 5.00	--	0	367 .00 6.02 53	164 3.41 30 16	65	--	1.00	--	566 625	340 40	2.7
08/23/72	5050 0945	125/05E-04K01	M	69.0F 20.5C	7.8 7.9	920 1090	43 2.15	53 4.36	121 5.26	--	0	362 .00 5.93 50	185 3.85 33 17	72	--	1.10	--	615 653	327 29	2.9
08/23/72	5050 1350	125/05E-05F01	M	67.0F 19.4C	7.5 8.1	1350 1500	34 1.70	81 6.66	176 7.66	--	0	328 .00 5.38 33	343 7.14 44 23	131	--	1.10	--	936 927	417 149	3.7
08/28/72	5050 0955	125/05E-09J01	M	70.0F 21.1C	7.7 8.0	1120 1370	57 2.84	73 6.00	141 6.13	--	0	384 .00 6.29 42	290 6.04 40 18	94	--	1.10	--	820 845	442 128	2.9
08/23/72	5050 1250	125/05E-16B01	M	68.0F 20.0C	7.4 8.0	1870 2200	78 3.89	132 10.86	227 9.87	--	0	523 .00 8.57 35	455 9.47 39 26	220	--	1.60	--	1390 1371	739 309	3.6
08/23/72	5050 1400	125/05E-17001	M	86.0F 30.0C	8.0 8.0	1400 1340	40 2.00	31 2.55	176 7.66	--	0	283 .00 4.64 37	281 7.92 63	--	.30	--	670 669	227 0	5.1	
08/24/72	5050 1035	125/05E-24H01	M	68.0F 20.0C	7.6 8.1	600 732	48 2.40	33 2.71	51 2.22	--	0	277 .00 4.54 61	28 .58 8 32	84	--	2.10	--	398 382	255 29	1.4
08/24/72	5050 1115	125/05E-24L04	M	72.0F 22.2C	8.0 8.0	900 973	39 1.95	23 1.89	134 5.83	--	0	240 .00 3.93 40	176 3.66 37 23	79	--	1.00	--	552 570	191 0	4.2
08/24/72	5050 1335	125/05E-25H01	M	75.0F 23.9C	7.8 8.0	1000 1080	40 2.00	33 2.71	144 6.26	--	0	287 .00 4.70 41	203 4.23 37 21	86	--	1.10	--	602 648	237 1	4.1
08/29/72	5050 1110	125/05E-26E04	M	73.0F 22.8C	7.4 8.0	1220 1370	60 2.99	78 6.41	128 5.57	--	0	372 .00 6.10 41	273 5.68 38 21	108	--	1.00	--	816 831	470 165	2.6
08/29/72	5050 1300	125/05E-27E01	M	70 21 F C	7.6 8.0	1280 1500	62 3.09	84 6.91	144 6.26	--	0	439 .00 7.20 44	295 6.14 37 19	110	--	1.10	--	914 912	500 140	2.8

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP FIELD LABORATORY PH EC	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE												MILLIGRAMS PER LITER					
			CA	MG	NA	K	CO3	HCO3	S04	CL	N03	B	F	TDS	SUM	TH	NCH	SAR		
3 3-03																				
CENTRAL COAST GILROY - HOLLISTER VALLEY																				
3-03-02																				
SAN BENITO COUNTY																				
08/29/72 0920	5050 5050	125/05E-27M03 M	65.0F 18.3C	7.3 7.9	1280 1550	66 3.29	89 43	146 6.35	-- 37	0 .00	452 7.41	309 6.43	114 38	-- 19	1.10 --	-- 1059	1010 947	531 160	2.8	
12/01/71	5050 5050	125/05E-28L03 M				65 8.0	114 3.24	167 9.38	.3 16	0 .01	749 12.28	243 6.06	99 2.79	1.2 .02	.90 14	-- --	1130 1059	632 17	2.9	
08/29/72 0940	5050 5050	125/05E-28N03 M	66.0F 18.9C	7.4 8.0	1380 1600	50 2.50	87 7.15	178 7.74	-- 45	0 .00	522 8.56	254 5.29	121 3.41	-- 20	1.20 --	-- 948	948 484	484 55	3.5	
08/24/72 1300	5050 5050	125/05E-35802 M	68.0F 20.0C	7.4 7.9	930 1060	51 2.54	46 3.78	117 5.09	-- 45	0 .00	332 5.44	199 4.14	79 2.23	-- 19	1.10 --	-- 584	584 656	319 44	2.9	
08/24/72 1425	5050 5050	125/05E-35Q001 M	72.0F 22.2C	7.8 7.9	900 1110	52 2.59	46 3.78	114 4.96	-- 44	0 .00	326 5.34	206 4.29	80 2.26	-- 19	1.10 --	-- 630	630 659	320 52	2.8	
08/29/72 0815	5050 5050	135/05E-04E01 M	70.0F 21.1C	7.0 7.7	800 959	39 1.95	50 4.11	65 2.83	-- 32	0 .00	173 2.84	17 3.35	172 4.85	53.0 .85	.10 10	-- --	594 481	302 161	1.6	
08/28/72 1200	5050 5050	135/05E-11B07 M	68.0F 20.0C	7.6 8.0	1500 1740	75 3.74	101 8.31	159 6.92	-- 36	0 .00	404 6.62	372 7.75	165 4.65	-- 24	1.10 --	-- 1072	1090 1072	602 272	2.8	
08/25/72 0810	5050 5050	135/05E-13F02 M	65.0F 18.3C	8.0 8.1	1290 1560	65 3.24	78 6.41	154 6.70	-- 41	0 .00	376 6.16	316 6.58	140 3.95	-- 24	1.20 --	-- 939	953 485	485 175	3.0	
3-04																				
SALINAS VALLEY																				
PRESSURE AREA																				
08/14/72	5115 5050	135/02E-07R01 M	73.0F 22.8C	8.0	1190	35 1.75	13 1.07	192 8.35	-- 16	0 .00	237 3.88	-- 41	198 5.58	1.7 .03	-- 59	-- --	-- --	142 0	7.0	
08/14/72	5115 5050	135/02E-19H01 M	68.0F 20.0C	7.6	3530	216 10.78	104 8.55	315 13.70	-- 41	0 .00	208 3.41	-- 12	924 26.06	4.6 .07	-- 88	-- --	-- 970	970 797	4.4	
08/11/72	5115 5050	135/02E-19R01 M	69.0F 20.5C	7.8	1770	119 5.94	56 4.61	128 5.57	4.2 .11	0 .00	209 3.43	-- 22	413 .73	1.7 11.65	.10 .03	-- 74	1090 860	528 356	2.4	
04/20/72 1130	5050 5050	135/02E-20J01 M	66.0F 18.9C	7.4 8.1	420 514	37 1.85	19 1.56	45 1.96	-- 34	0 .00	246 4.03	-- 77	42 1.18	.0 .00	.00 23	-- --	-- 171	171 0	1.5	
04/20/72 1230	5050 5050	135/02E-29C04 M	71.0F 21.6C	7.4 8.0	860 918	62 3.09	21 1.73	100 4.35	-- 47	0 .00	227 3.72	-- 45	162 4.57	2.6 .04	.10 55	-- --	-- 243	243 55	2.8	
08/14/72	5115 5050	135/02E-29F01 M	62.0F 16.7C	8.0	478	29 1.45	12 .99	52 2.26	1.4 .04	0 .00	198 3.25	-- 69	12 .25	44 1.24	.0 .00	.00 26	-- 248	259 122	248 0	2.1
08/11/72	5115 5050	135/02E-30A01 M	69.0F 20.5C	7.9	1780	121 6.04	46 3.78	152 6.61	4.7 .12	0 .00	231 3.79	-- 23	407 11.48	2.5 .04	.10 71	-- --	1250 892	491 302	3.0	
08/17/72	5115 5050	135/02E-31K02 M	65.0F 18.3C	8.0	1490	109 5.44	38 3.13	116 5.05	-- 37	0 .00	214 3.51	-- 26	344 9.70	2.2 .04	-- 73	-- --	-- 427	427 253	2.4	
08/21/72	5115 5050	135/02E-32A02 M	66.0F 18.9C	8.2	654	44 2.20	17 1.40	65 2.83	-- 44	0 .00	247 4.05	-- 66	74 2.09	1.9 .03	-- 34	-- --	-- 179	179 0	2.1	
09/28/72	5115 5050	145/02E-02C80 M		7.9	485	46 1.07	13 1.65	38 .05	2.0 1	0 .00	247 4.05	-- 81	61 .13	27 .76	2.5 .04	.00 15	-- --	254 256	168 0	1.3
08/22/72	5115 5050	145/02E-03F01 M	64.0F 17.8C	8.0	982	77 3.84	36 2.96	68 2.96	-- 30	0 .00	248 4.06	-- 50	130 3.67	19.0 .31	-- 4	-- --	-- 137	340 137	1.6	

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃								MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER						
				B SiO ₂	F SUM	TDS NCH	TH SAR	B SiO ₂	F SUM	TDS NCH	TH SAR	B SiO ₂	F SUM	TDS NCH	TH SAR	B SiO ₂	F SUM	TDS NCH	TH SAR			
3 3-04																						
CENTRAL COAST SALINAS VALLEY																						
PRESSURE AREA																						
08/14/72	5115 5050	72.0F 22.2C	8.0	642	42 2.10	14 1.15	62 2.70	2.7 .07	0 1	188 3.08	67 1.39	61 1.72	3.1 .05	.10 1	--	392 344	164 9	2.1				
08/14/72	5115 5050	68.0F 20.0C	7.7	507	30 1.50	13 1.07	53 2.31	-- 47	0 0.00	196 3.21	-- 70	47 1.33	1.8 .03	-- 1	--	130 0	2.0					
08/10/72	5115 5050	64.0F 17.8C	7.8	557	53 2.64	18 1.48	35 1.52	-- 27	0 .00	242 3.97	-- 75	43 1.21	6.3 .10	-- 2	--	207 8	1.1					
08/10/72	5115 5050	68.0F 20.0C	7.0	1520	116 5.79	54 4.44	92 4.00	-- 28	0 .00	53 .87	-- 12	166 4.68	88.0 1.42	-- 67	--	511 468	1.8					
08/10/72	5115 5050	64.0F 7.8		643	49 2.45	18 1.48	54 2.35	3.1 .08	0 .00	206 3.38	50 1.04	64 1.80	3.6 .06	.00 1	--	390 343	198 28	1.7				
08/10/72	5115 5050	66.0F 18.9C	7.9	579	41 2.05	14 1.15	49 2.13	3.0 .08	0 .00	158 2.59	76 1.58	38 1.07	.0 .00	.10 0	--	344 299	160 31	1.7				
08/09/72	5115 5050	64.0F 17.8C	7.6	1500	97 4.84	38 3.13	139 6.05	6.4 .16	0 .00	275 4.51	187 3.89	186 5.25	29.0 .47	.30 3	--	928 818	401 173	3.0				
08/09/72	5115 5050	64.0F 17.8C	7.6	1760	124 6.19	38 3.13	167 7.26	5.4 .14	0 1	293 4.80	238 4.96	228 6.43	13.0 .21	.40 1	--	1090 958	469 226	3.4				
08/09/72	5115 5050	64.0F 17.8C	7.8	649	54 2.69	20 1.64	48 2.09	2.6 .07	0 .00	191 3.13	101 2.10	44 1.24	1.1 .02	.10 19	--	409 365	219 60	1.4				
08/04/72	5115 5050	69.0F 20.5C	8.1	457	44 2.20	12 .99	30 1.31	-- 29	0 .00	154 2.52	-- 85	15 .42	1.6 .03	.00 1	--	161 134	1.0					
08/09/72	5115 5050	62.0F 16.7C	7.6	2460	163 8.13	79 6.50	252 10.96	-- 43	0 .00	377 6.18	-- 44	278 7.84	5.5 .09	.70 1	--	731 423	469 4.1					
08/10/72	5115 5050	64.0F 17.8C	7.9	1310	111 5.54	46 3.78	88 3.83	4.6 .12	0 .00	293 4.80	252 5.25	104 2.93	.0 .00	.20 23	--	868 750	468 226	1.8				
08/09/72	5115 5050	65.0F 18.3C	7.5	1080	93 4.64	40 3.29	54 2.35	3.7 .09	0 .00	234 3.84	168 3.50	87 2.45	.0 25	.10 25	--	718 561	400 205	1.2				
08/15/72	5115 5050	65.0F 18.3C	7.9	953	73 3.64	35 2.88	74 3.22	-- 33	0 1	287 4.70	-- 74	56 1.58	2.4 .04	-- 1	--	325 91	1.8					
08/24/72	5115 5050	68.0F 20.0C	7.8	1070	94 4.69	41 3.37	51 2.22	-- 22	0 .00	216 3.54	-- 56	98 2.76	.5 .01	-- 44	--	404 226	1.1					
07/31/72	5115 5050	65.0F 7.9		841	54 2.69	25 2.06	78 3.39	-- 42	0 .00	189 3.10	-- 46	120 3.38	20.0 .32	.00 5	--	237 83	2.2					
07/27/72	5115 5050	65.0F 8.1		621	62 3.09	23 1.89	34 1.48	-- 23	0 .00	222 3.64	-- 84	24 .68	.1 .00	.10 16	--	249 67	0.9					
EAST SIDE AREA																						
08/22/72	5115 5050	66.0F 18.9C	7.9	652	40 2.00	19 1.56	64 2.78	-- 44	0 1	212 3.47	-- 58	87 2.45	4.6 .07	-- 1	--	178 5	2.1					
04/21/72 0945	5050 5050	70.0F 21.1C	7.3	1000	69 3.44	31 2.55	93 4.05	-- 40	0 0.00	195 3.20	-- 39	177 4.99	4.2 .07	.00 1	--	301 140	2.3					
04/21/72 0910	5050 5050	69.0F 20.5C	7.4	700	54 2.69	20 1.64	67 2.91	-- 40	0 .00	169 2.77	-- 50	93 2.62	9.7 .16	.10 3	--	219 78	2.0					

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP PH	FIELD LABORATORY EC	MINERAL CONSTITUENTS IN CA MG NA K CO ₃ HCO ₃ SO ₄ CL NO ₃										MILLIGRAMS PER LITER MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE				MILLIGRAMS PER LITER				
				80 38	36 28	77 32	3.5 1	0 .00	286 46	102 21	121 33	.0 .00	.20	--	626 560	347 113	TH NCH	SAR				
3 3-04																						
CENTRAL COAST SALINAS VALLEY																						
FOREBAY AREA																						
09/26/72	5115 5050	60.0F 15.5C	7.8	1020	3.99 38	2.96 28	3.35 32	.09 1	0 .00	4.69 46	2.12 21	3.41 33	.00 .00	.20	--	626 560	347 113	TH NCH	1.8			
07/25/72	5115 5050	175/06E-35F01	M																	252 76		
08/23/72	5115 5050	185/07E-20K01	M																	1300 1056		
08/30/72	5050 1015	3-04.05 185/07E-20K01	M																	2610		
08/30/72	5050 0925	185/07E-28R01	M																	1430		
08/30/72	5050 0900	185/07E-29A02	M																	3410		
08/30/72	5050 1105	185/07E-29D01	M																	2330		
08/30/72	5050 1050	185/07E-30R01	M																	951		
08/29/72	5050 1345	185/07E-31Q02	M																	770		
08/29/72	5050 1335	185/07E-32M01	M																	1580		
07/21/72	5115 5050	195/07E-13D03	M																	627 316		
06/28/72	5050 1130	195/07E-17K01	M																	517 350		
07/20/72	5115 5050	195/07E-36N01	M																	511 257		
08/16/72	5115 5050	195/08E-33P01	M	68 20	F C	7.9	2500 2920	128 11.02	134 13.66	314 44	--	0 .00	380 6.23	--	136 3.84	51.0 .82	1.10 8	--		870 613		
07/20/72	5115 5050	205/08E-06801	M																	278 6		
07/20/72	5115 5050	205/08E-16C01	M																	236 33		
07/20/72	5115 5050	205/08E-17P01	M																	2.2		
07/19/72	5115 5050	215/08E-04C01	M																	340 183		
07/18/72	5115 5050	215/09E-24L01	M																	768 570		
07/12/72	5115 5050	215/10E-32N01	M																	1510 1292		

TABLE E-1 (CONTINUED)
MINERAL ANALYSES OF GROUND WATER

DATE TIME	SAMPLER LAB	TEMP FIELD LABORATORY PH EC	MILLIGRAMS PER LITER MINERAL CONSTITUENTS IN MILLIEQUIVALENTS PER LITER PERCENT REACTANCE VALUE								MILLIGRAMS PER LITER									
			CA	MG	NA	K	CO ₃	HCO ₃	SO ₄	CL	NO ₃	B	F	TDS	TH	SIO ₂	SUM	NCH	SAR	
			•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
3 3-04																				
CENTRAL COAST SALINAS VALLEY																				
3-04-08 145/01E-13J02 M																				
08/30/72	5115 5050	70.0F 21.1C	120 2280	80 5.99	196 6.58	-- 0.00	0 2.98	182 16	-- 84	565 15.93	3.1 .05	-- --	630 480	-- --	-- --	125 98	3.4 2.4			
145/01E-25K01 M																				
08/30/72	5115 5050	7.2 1.05	21 582	18 1.48	63 2.74	-- 0.00	0 .57	35 13	-- 77	124 3.50	28.0 .45	-- 10	-- --	125 98	-- --	125 98	2.4 2.4			

TABLE E-2
MINOR ELEMENT ANALYSIS OF GROUND WATER

State Well Number	Date Sampled	Constituents in Milligrams per Liter								
		Arsenic	Cadmium	Copper	Iron	Lead	Manganese	Selenium	Zinc	
NORTH COASTAL REGION 1-00.00										
ANDERSON VALLEY 1-19.00										
14N/14W-34G06M	9-15-72	0.00	0.00	0.00	0.35	0.01	0.12	0.00	0.01	
POINT ARENA 1-20.00										
13N/16W-31M01M	9-15-72	0.00	0.00	0.02	0.06	0.01	0.00	0.00	0.04	
FORT BRAGG TERRACE 1-21.00										
19N/17W-30G01M	9-14-72	0.00	0.00	0.02	0.35	0.01	0.02	0.01	0.11	

Appendix F
WASTE WATER DATA

Appendix F, "Waste Water Data", which appeared in certain volumes of Bulletin No. 130 series, has been discontinued. For information regarding waste water, the reader is referred to the recently reactivated Bulletin No. 68 series: "Inventory of Waste Water Production and Waste Water Reclamation Practices in California".

Please note the data presented in Bulletin No. 68 are on a calendar year basis rather than a water year basis as is the case in Bulletin No. 130.

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